

NASA Technical Memorandum 85015

**COSPAS-SARSAT
Satellite Orbit Predictor
Volume XIII**

(NASA-TM-85015-Vol-13) COSPAS-SARSAT
SATELLITE ORBIT PREDICTOR, VOLUME 13
Almanac, 16 Apr. - 15 Oct. 1989 (NASA.
Goddard Space Flight Center) 106 p

N89-71561

Unclassified
00/15 0217499

Morton L. Friedman

APRIL 1989



NASA Technical Memorandum 85015

**COSPAS-SARSAT
Satellite Orbit Predictor
Volume XIII**

Morton L. Friedman
*Goddard Space Flight Center
Greenbelt, Maryland*



National Aeronautics and
Space Administration

Goddard Space Flight Center
Greenbelt, Maryland 20771

1989

**THIS ALMANAC COVERS THE PERIOD APRIL 16, 1989 THROUGH
OCTOBER 15, 1989 AND WILL BE REPLACED PERIODICALLY**

GLOSSARY

AOS	Acquisition of Signal
COSPAS	Space System for Search of Vessels in Distress (USSR)
ELT	Emergency Locator Transmitter
EPIRB	Emergency Position Indicating Radio Beacon
GMT	Greenwich Mean Time
LOS	Loss of Signal
LUT	Local User Terminal
SARSAT	Search and Rescue Satellite Aided Tracking

SATELLITE ORBIT PREDICTOR

The satellite orbit predictor is a graphical aid for determining the relationship between the satellite (SARSAT or COSPAS) orbit, antenna coverage of the spacecraft and coverage of the LUTs. The predictor allows the user to quickly visualize if a selected position will probably be detected and is composed of a base map and a satellite track overlay for each satellite. Additionally, a table of equator crossings for each satellite is included.

In order for a LUT to receive ELT/EPIRB information from a satellite, mutual visibility between the satellite, LUT and ELT/EPIRB must occur. Mutual visibility requires two simultaneous conditions:

- a. The satellite subtrack or ground track must lie within a LUT coverage circle for at least 4 minutes.
- b. and the suspected ELT/EPIRB must lie within the satellite antenna coverage swath during the 4 minute period.

The base map is a polar stereographic projection of the northern hemisphere. The LUT coverage circles are based on the LUT seeing the satellite at the horizon. On projections of this type equal increments of latitude are not equidistant. Therefore, the map includes a dot matrix in the ocean areas with the dots printed as a one degree latitude by one degree longitude field. Another property of the projection is that the center of the LUT coverage does not coincide with the actual geographical position of the LUT.

The overlay shows the satellite ground track or subtrack (black) starting from the ascending node (northbound equator crossing) and continuing minute by minute across the overlay. In addition, the 10 degree coverage limits of the spacecraft antenna (red) are plotted on both sides of the subtrack. The yellow lines connecting the antenna coverage swath and the subtrack indicate time in minutes. Just to the west of the left hand antenna coverage limit is a short line segment (labeled "next pass") which is the index for the next ascending node equator crossing.

The table of satellite equator crossings contains the zulu date/time group that a satellite will cross the equator northbound, the orbit number, and the longitude that it will cross the equator. A particular orbit starts when the satellite crosses the equator northbound (ascending) and ends just prior to the next ascending node equator crossing. The longitudes are listed in degrees east longitude, i.e., a negative number in this column is a west longitude.

To use the predictor, first select an equator crossing from the table and then rotate the satellite overlay to position the satellite subtrack over the selected equator crossing longitude. The predictor now represents the satellite ground track for the selected orbit. Subsequent and previous orbit depictions can be obtained by using the "next pass" index.

For subsequent orbits... mark or note the longitude beneath the "next pass" index and rotate the overlay clockwise to position the satellite subtrack over the new equator crossing longitude. For previous orbits, rotate the overlay counterclockwise to position the "next pass" index over the present equator crossing. The ground track for the previous pass will be to the right of the original orbit, and the subtrack for subsequent orbits will be to the left of the original equator crossing. One can do this all the way around the wheel without sacrificing a great deal of accuracy.

So far we have just looked at positioning the overlay to obtain a depiction of a satellite ground track for a selected orbit number and then ground tracks for later and earlier orbits. Now let's examine what information we can get from the depiction. When the subtrack intersects a LUT coverage circle, the LUT will receive signals from the satellite for the time period that the subtrack is within a coverage circle. An ELT/EPIRB is visible to the satellite when it lies within the antenna coverage limits (red lines). Mutual visibility occurs when an ELT/EPIRB is within the satellites field-of-view at the same time that the satellite subtrack lies within a LUT coverage circle. From this, we can see for a selected orbit if a spacecraft will be seen by a LUT and approximately where ELTs/EPIRBs must be located to be processed by a LUT. The predictor can be used for more sophisticated problems such as approximate AOS and LOS at a LUT, next time an ELT/EPIRB will be in mutual visibility, and when/if an area of interest will be seen by a satellite and a LUT.

To determine approximate AOS and LOS at a LUT, refer to the equator crossing table and note the time (in zulu) that the satellite will cross the equator. Next, position the overlay as previously discussed and count the yellow lines from the equator to the point at which the subtrack intersects the LUT coverage circle. Add the number of minutes to the time of equator crossing and you have the approximate AOS. Continue counting the yellow lines until the subtrack exits the LUT circle and add them to the AOS time and you have the approximate LOS as well as the approximate duration of the pass. (See example 1.)

Finding out when the next time an ELT/EPIRB will be in mutual visibility of the satellite and LUT is simply a combination of the above two tasks. From the original orbit, move the overlay clockwise orbit-by-orbit using the "next pass" index until mutual visibility is established and then reference the equator crossing table for the time of equator crossing using the longitude now under the ascending node. By counting the minutes since equator crossing and adding them to the time of equator crossing, one comes up with the approximate time the ELT/EPIRB will next be in mutual visibility. (See example 2.)

Using the orbit predictor to determine when and if an area of interest will be viewed by the satellite and the LUT is a bit more complicated. First, locate the area of interest on the base map, refer to the equator crossing table for a longitude within plus or minus 20 degrees that has an equator crossing time within the appropriate time frame, position the overlay at the selected longitude and determine if mutual visibility will exist. (See example 3.) If there is not mutual visibility on that orbit, rotate the overlay using the "next pass" index until you determine that mutual visibility exists or that the interest area is too distant from a LUT or the satellite subtrack for mutual visibility to exist.

EXAMPLE NO. 1

1. Refer to the equator crossing table for time and longitude of the desired equator crossing:

TIME (GMT)	E. LONGITUDE	ORBIT
day hr mn sc	deg.dg	
292 9 32 4	19.94	1523
292 11 17 26	-6.52	1524
292 13 2 48	-32.99	1525
292 14 48 9	-59.45	1526 <
292 16 33 31	-85.92	1527
292 18 18 52	-112.38	1528

From the equator crossing table, select orbit number 1526. The zulu date/time group for the equator crossing is 292 (19 Oct) 1448:09. The longitude of the equator crossing is 59.45 W.

2. Position the overlay so the subtrack coincides with the northbound equator crossing and then count the number of yellow lines (minutes) from equator crossing to the point where the subtrack enters a LUT circle (AOS) and exits a LUT circle (LOS).

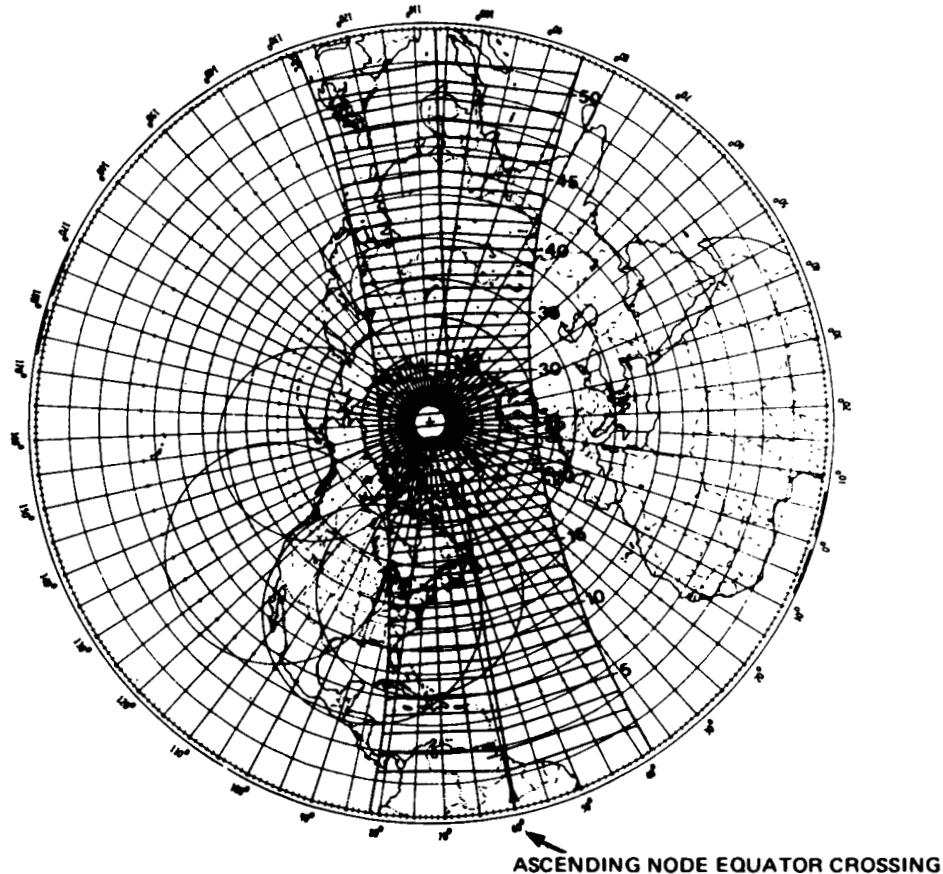


Figure 1

Position the overlay so the ascending node is set at 59.45 W. Now count the number of yellow lines from the equator until the subtrack intersects a LUT circle. In this case the subtrack intersects a lut circle 5 minutes after crossing the equator, the subtrack lies within the LUT circle for 14 minutes before exiting. Adding these times to the equator crossing time of 1448:09 yields an approximate AOS of 1453:09 and an approximate LOS of 1504:09.

EXAMPLE NO. 2

1. From the original orbit move the overlay clockwise using the "next pass" index until mutual visibility is established.

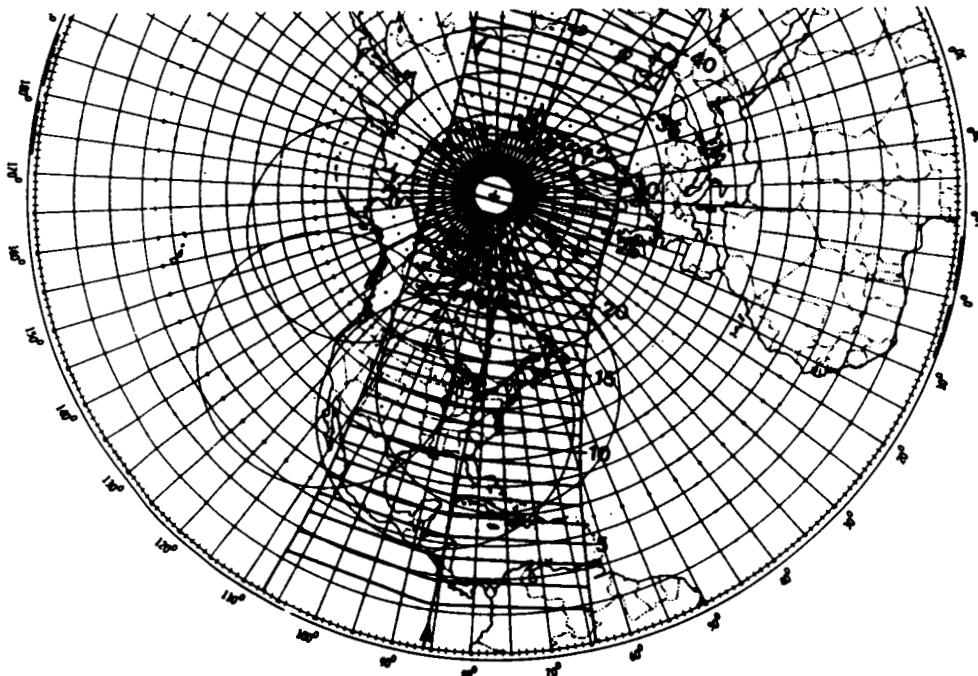


Figure 2

Assume there is an ELT located at 40 00.0 N. and 080 00.0 W. The original orbit (1526) is within mutual visibility, and we want to know the next time the ELT will be in mutual visibility. The "next pass" index is at approximately 087 W. rotate the overlay until the subtrack coincides with 087 W.

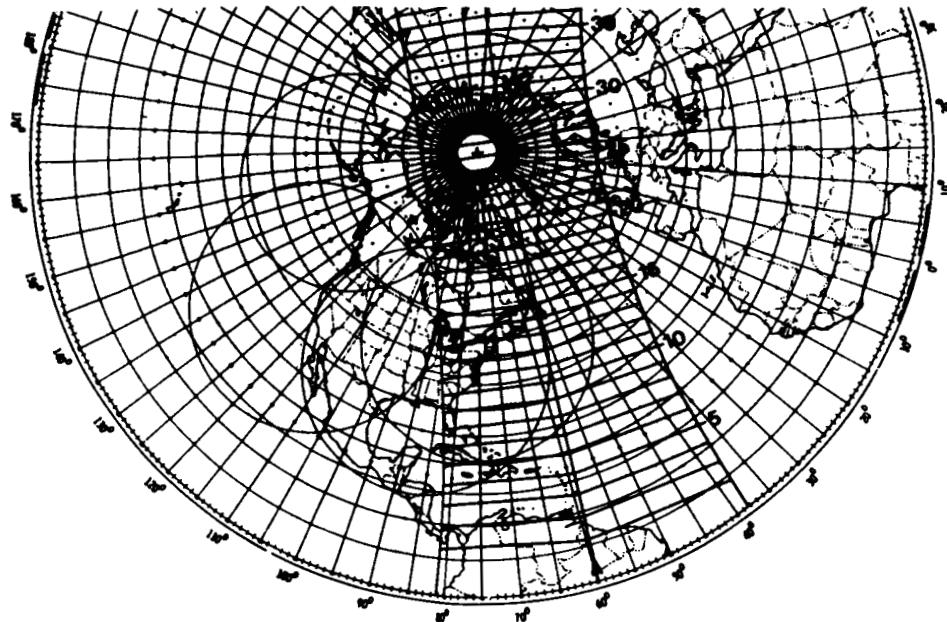


Figure 3

By looking at the subtrack and LUT circle, we see that the satellite will see the ELT and LUT on the next orbit (#1528). Adding the times to the equator crossing time (1633:31) gives us an approximate AOS of 1637, a 16 minute pass with an approximate LOS of 1653.

EXAMPLE NO. 3

SCENARIO: Assume you are interested in using the SARSAT system to locate the possible wreckage of a light aircraft that departed Charleston, South Carolina, enroute to Roanoke, Virginia. The aircraft departed Charleston at 1300Z on 19 October 1982 and never reached Roanoke.

1. Locate the route of flight or suspected ELT/EPIRB position on the base map and note the approximate longitude.

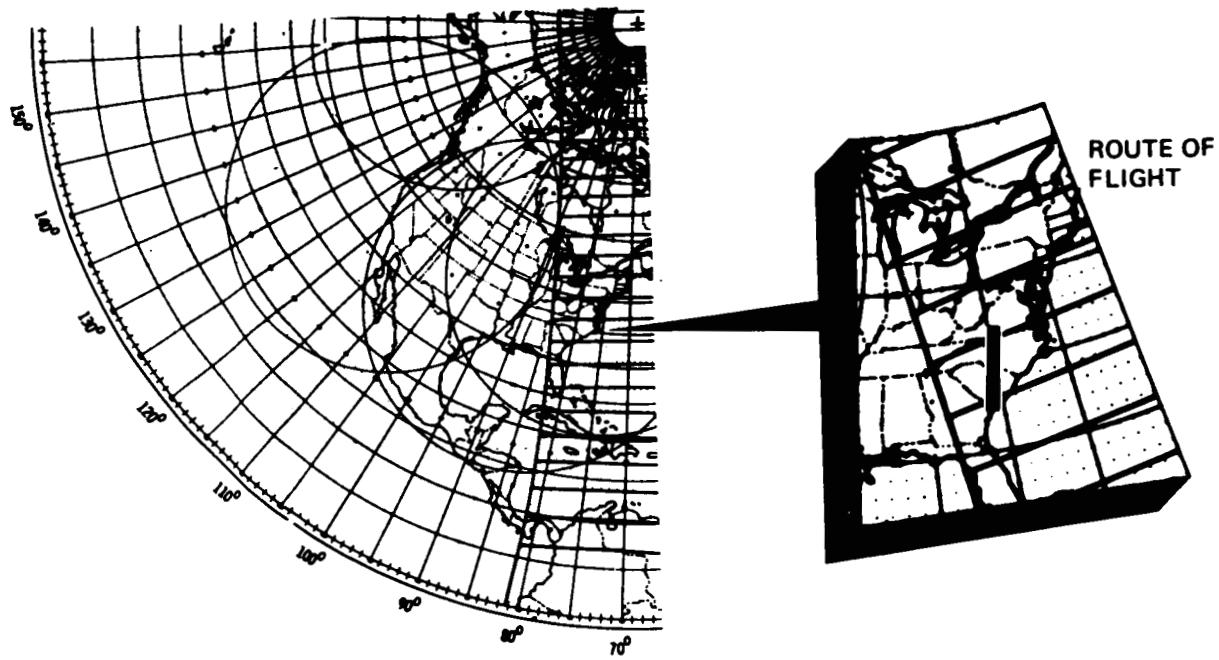


Figure 4

The route of flight is marked in the expanded box: approximate longitude is 080 W.

2. Refer to the equator crossing table and select an orbit within 20 degrees of the approximate longitude and within the appropriate time frame.

TIME (GMT)	E. LONGITUDE	ORBIT
day hr mn sc	deg.dg	
292 11 17 26	-6.52	1524
292 13 2 48	-32.99	1525
292 14 48 9	-59.45	1526
292 16 33 31	-85.92	1527
292 18 88 52	-112.38	1528

From the table there are two orbits that are within plus or minus 20 degrees of the route of flight; 1526 and 1527. Orbit #1526 is the earliest (1448Z) and is within our time frame.

3. Position the overlay at the selected longitude and determine if mutual visibility exists or will exist.

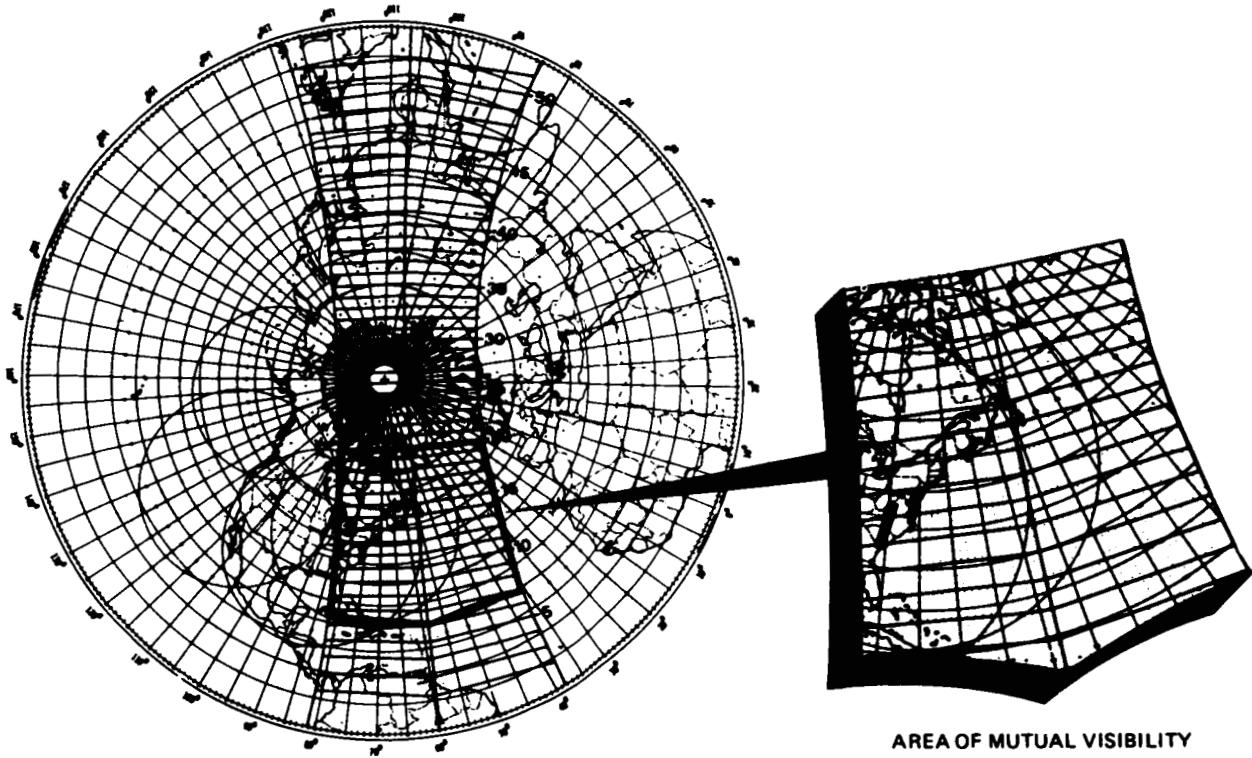


Figure 5

Remember, mutual visibility exists when the ELT/EPIRB is within the satellite antenna swath and the satellite subtrack is within a LUT circle. We can see that the ground track is within the LUT circle. Also, the route of flight we are interested in is within the antenna swath at the same time the ground track is within the LUT circle. Therefore, mutual visibility exists on orbit #1526.

CALENDAR 1989

DAYS OF WEEK AND DAYS OF THE YEAR

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	SU 1 W 32	W 60 SA 91	M 121 TH 152	SA 182 TU 213	F 244 SU 274	W 305 F 335						
2	M 2 TH 33	TH 61 SU 92	TU 122 F 153	SA 183 W 214	SA 245 M 275	TH 306 SA 336						
3	TU 3 F 34	F 62 M 93	W 123 SA 154	M 184 TH 215	SU 246 TU 276	F 307 SU 337						
4	W 4 SA 35	SA 63 TU 94	TH 124 SU 155	TU 185 F 216	M 247 W 277	SA 308 M 338						
5	TH 5 SU 36	SU 64 W 95	F 125 M 156	W 186 SA 217	TU 248 TH 278	SU 309 TU 339						
6	F 6 M 37	M 65 TH 96	SA 126 TU 157	TH 187 SU 218	W 249 F 279	M 310 W 340						
7	SA 7 TU 38	TU 66 F 97	SU 127 W 158	F 188 M 219	TH 250 SA 280	TU 311 TH 341						
8	SU 8 W 39	W 67 SA 98	M 128 TH 159	SA 189 TU 220	F 251 SU 281	W 312 F 342						
9	M 9 TH 40	TU 68 SU 99	TU 129 F 160	SU 190 W 221	SA 252 M 282	TH 313 SA 343						
10	TU 10 F 41	F 69 M 100	W 130 SA 161	M 191 TH 222	SU 253 TU 283	F 314 SU 344						
11	W 11 SA 42	SA 70 TU 101	TH 131 SU 162	TU 192 F 223	M 254 W 284	SA 315 M 345						
12	TH 12 SU 43	SU 71 W 102	F 132 M 163	W 193 SA 224	TU 255 TH 285	SU 316 TU 346						
13	F 13 M 44	M 72 TH 103	SA 133 TU 164	TH 194 SU 225	W 256 F 286	M 317 W 347						
14	SA 14 TU 45	TU 73 F 104	SU 134 W 165	F 195 M 226	TH 257 SA 287	TU 318 TH 348						
15	SU 15 W 46	W 74 SA 105	M 135 TH 166	SA 196 TU 227	F 258 SU 288	W 319 F 349						
16	M 16 TH 47	TH 75 SU 106	TU 136 F 167	SU 197 W 228	SA 259 M 289	TH 320 SA 350						
17	TU 17 F 48	F 76 M 107	W 137 SA 168	M 198 TH 229	SU 260 TU 290	F 321 SU 351						
18	W 18 SA 49	SA 77 TU 108	TH 138 SU 169	TU 199 F 230	M 261 W 291	SA 322 M 352						
19	TH 19 SU 50	SU 78 W 109	F 139 M 170	W 200 SA 231	TU 262 TH 292	SU 323 TU 353						
20	F 20 M 51	M 79 TH 110	SA 140 TU 171	TH 201 SU 232	W 263 F 293	M 324 W 354						
21	SA 21 TU 52	TU 80 F 111	SU 141 W 172	F 202 M 233	TH 264 SA 294	TU 325 TH 355						
22	SU 22 W 53	W 81 SA 112	M 142 TH 173	SA 203 TU 234	F 265 SU 295	W 326 F 356						
23	M 23 TH 54	TH 82 SU 113	TU 143 F 174	SU 204 W 235	SA 266 M 296	TH 327 SA 357						
24	TU 24 F 55	F 83 M 114	W 144 SA 175	M 205 TH 236	SU 267 TU 297	F 328 SU 358						
25	W 25 SA 56	SA 84 TU 115	TH 145 SU 176	TU 206 F 237	M 268 W 298	SA 329 M 359						
26	TH 26 SU 57	SU 85 W 116	F 146 M 177	W 207 SA 238	TU 269 TH 299	SU 330 TU 360						
27	F 27 M 58	M 86 TH 117	SA 147 TU 178	TH 208 SU 239	W 270 F 300	M 331 W 361						
28	SA 28 TU 59	TU 87 F 118	SU 148 W 179	F 209 M 240	TH 271 SA 301	TU 332 TH 362						
29	SU 29	W 88 SA 119	M 149 TH 180	SA 210 TU 241	F 272 SU 302	W 333 F 363						
30	M 30	TH 89 SU 120	TU 150 F 181	SU 211 W 242	SA 273 M 303	TH 334 SA 364						
31	TU 31	F 90	W 151	M 212 TH 243		TU 304	SU 365					

SATELLITE C1: ORBITAL ELEMENTS IN CLASSICAL SPACE
EPOCH: 1989 MARCH 09 14:03:16Z
SM AXIS :7390.964 KM ECCENTRICITY :0.0033420718
INCLINATION:82.930608 DEG LONGITUDE :281.239655 DEG
PERIGEE :25.7477423 DEG TRUE ANOMALY :348.373619 DEG

R/T 121.5:ON R/T 406:DEGRADED GLOBAL 406:DEGRADED

SATELLITE C2: ORBITAL ELEMENTS IN CLASSICAL SPACE
EPOCH: 1989 MARCH 08 07:10:55Z
SM AXIS :7356.19407 KM ECCENTRICITY :0.0046597635
INCLINATION:82.9458438 DEG LONGITUDE :356.40782 DEG
PERIGEE :1.483957 DEG TRUE ANOMALY :117.235639 DEG

R/T 121.5:ON R/T 406:ON GLOBAL 406:ON

SATELLITE C3: ORBITAL ELEMENTS IN CLASSICAL SPACE
EPOCH: 1989 MARCH 08 20:22:29Z
SM AXIS :7364.50234 KM ECCENTRICITY :0.02505256
INCLINATION:83.3296901 DEG LONGITUDE :45.4885209 DEG
PERIGEE :82.7247585 DEG TRUE ANOMALY :289.523799 DEG

R/T 121.5:ON R/T 406:ON GLOBAL 406:ON

SATELLITE S2: ORBITAL ELEMENTS IN CLASSICAL SPACE
EPOCH: 1989 MARCH 08 20:49:02Z
SM AXIS :7236.36287 KM ECCENTRICITY :0.00056869538
INCLINATION:99.1266244 DEG LONGITUDE :52.8922059 DEG
PERIGEE :169.986784 DEG TRUE ANOMALY :202.364275 DEG

R/T 121.5:ON R/T 406:ON GLOBAL 406:OFF

SATELLITE S3: ORBITAL ELEMENTS IN CLASSICAL SPACE
EPOCH: 1989 MARCH 09 14:36:07Z
SM AXIS :7184.83285 KM ECCENTRICITY :0.00060999174
INCLINATION:98.6486055 DEG LONGITUDE :100.961965 DEG
PERIGEE :178.560817 DEG TRUE ANOMALY :294.370166 DEG

R/T 121.5:ON R/T 406:OFF GLOBAL 406:OFF

SATELLITE S4: ORBITAL ELEMENTS IN CLASSICAL SPACE
EPOCH: 1989 MARCH 08 17:19:52Z
SM AXIS :7239.08549 KM ECCENTRICITY :0.0021168845
INCLINATION:98.9265010 DEG LONGITUDE :12.2746592 DEG
PERIGEE :116.525251 DEG TRUE ANOMALY :260.739765 DEG

R/T 121.5:ON R/T 406:ON GLOBAL 406:ON

SATELLITE C1				SATELLITE C2				SATELLITE C3			
Ascending Node Predictions				Ascending Node Predictions				Ascending Node Predictions			
Predicting for 183 days				Predicting for 183 days				Predicting for 183 days			
TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	day	hr mn sc	deg dg
day	hr	mn	sc	deg	dg	day	hr	mn	sc	deg	dg
105 00:21:47	45.94	33914	105 00:00:01	129.74	30388	105 00:22:47	169.03	24130			
105 02:07:08	19.48	33915	105 01:44:09	99.27	30389	105 02:07:43	142.67	24131			
105 03:52:29	-6.98	33916	105 03:29:02	72.93	30390	105 03:52:38	116.31	24132			
105 05:37:50	-33.44	33917	105 05:13:54	46.59	30391	105 05:37:34	89.96	24133			
105 07:23:10	-59.91	33918	105 06:58:46	20.25	30392	105 07:22:29	63.60	24134			
105 09:08:31	-86.37	33919	105 08:43:38	-6.10	30393	105 09:07:24	37.24	24135			
105 10:53:52	-112.83	33920	105 10:28:30	-32.44	30394	105 10:52:20	10.89	24136			
105 12:39:13	-139.29	33921	105 12:13:23	-58.78	30395	105 12:37:15	-15.47	24137			
105 14:24:34	-165.75	33922	105 13:58:15	-85.13	30396	105 14:22:11	-41.82	24138			
105 16:09:54	167.78	33923	105 15:43:07	-111.47	30397	105 16:07:06	-68.18	24139			
105 17:55:15	141.32	33924	105 17:27:59	-137.82	30398	105 17:52:02	-94.54	24140			
105 19:40:36	114.86	33925	105 19:12:52	-164.16	30399	105 19:36:57	-120.89	24141			
105 21:25:57	88.40	33926	105 20:57:44	169.50	30400	105 21:21:52	-147.25	24142			
105 23:11:18	61.94	33927	105 22:42:36	143.16	30401	105 23:06:48	-173.61	24143			
106 00:36:38	35.47	33928	106 00:27:28	116.81	30402	106 00:31:43	160.04	24144			
106 02:41:59	9.01	33929	106 02:12:21	90.47	30403	106 02:36:39	133.68	24145			
106 04:27:20	-17.45	33930	106 03:57:13	64.13	30404	106 04:21:34	107.32	24146			
106 06:12:41	-43.91	33931	106 05:42:05	37.78	30405	106 06:06:29	80.97	24147			
106 07:58:02	-70.38	33932	106 07:26:57	11.44	30406	106 07:51:25	54.61	24148			
106 09:43:22	-96.84	33933	106 09:11:50	-14.90	30407	106 09:36:20	28.25	24149			
106 11:28:43	-123.30	33934	106 10:56:42	-41.25	30408	106 11:21:16	1.90	24150			
106 13:14:04	-149.76	33935	106 12:41:34	-67.59	30409	106 13:06:11	-24.46	24151			
106 14:59:25	-176.23	33936	106 14:26:26	-93.93	30410	106 14:51:06	-50.82	24152			
106 16:44:46	157.31	33937	106 16:11:19	-120.28	30411	106 16:36:02	-77.17	24153			
106 18:30:06	130.83	33938	106 17:56:11	-146.62	30412	106 18:20:57	-103.53	24154			
106 20:15:27	104.39	33939	106 19:41:03	-172.96	30413	106 20:05:53	-129.88	24155			
106 22:00:48	77.92	33940	106 21:25:55	160.69	30414	106 21:50:48	-156.24	24156			
106 23:46:09	51.46	33941	106 23:10:48	134.35	30415	106 23:35:44	177.40	24157			
107 01:31:30	25.00	33942	107 00:55:40	108.01	30416	107 01:20:39	151.05	24158			
107 03:16:50	-1.46	33943	107 02:40:32	81.66	30417	107 03:05:34	124.69	24159			
107 05:02:11	-27.93	33944	107 04:25:24	55.32	30418	107 04:50:30	98.33	24160			
107 06:47:32	-54.39	33945	107 06:10:16	28.98	30419	107 06:35:25	71.98	24161			
107 08:32:53	-80.85	33946	107 07:55:09	2.64	30420	107 08:20:21	45.62	24162			
107 10:18:14	-107.31	33947	107 09:40:01	-23.71	30421	107 10:05:16	19.26	24163			
107 12:03:34	-133.78	33948	107 11:24:53	-50.05	30422	107 11:50:11	-7.09	24164			
107 13:48:55	-160.24	33949	107 13:09:45	-76.40	30423	107 13:35:07	-33.45	24165			
107 15:34:16	173.30	33950	107 14:54:38	-102.74	30424	107 15:20:02	-59.81	24166			
107 17:19:37	146.84	33951	107 16:39:30	-129.08	30425	107 17:04:58	-86.16	24167			
107 19:04:58	120.38	33952	107 18:24:22	-155.43	30426	107 18:49:53	-112.52	24168			
107 20:50:18	93.91	33953	107 20:09:14	178.23	30427	107 20:34:48	-138.88	24169			
107 22:35:39	67.43	33954	107 21:54:07	151.89	30428	107 22:19:44	-165.23	24170			
108 00:21:00	40.99	33955	108 01:23:51	99.20	30430	108 00:04:39	168.41	24171			
108 02:06:21	14.53	33956	108 03:08:43	72.86	30431	108 01:49:35	142.06	24172			
108 03:51:42	-11.94	33957	108 04:53:36	46.52	30432	108 03:34:30	115.70	24173			
108 05:37:02	-38.40	33958	108 06:38:28	20.17	30433	108 05:19:26	89.35	24174			
108 07:22:23	-64.86	33959	108 08:23:20	-6.17	30434	108 07:04:21	62.99	24175			
108 09:07:44	-91.32	33960	108 10:08:12	-32.52	30435	108 08:49:16	36.63	24176			
108 10:53:05	-117.79	33961	108 11:53:05	-58.86	30436	108 10:34:12	10.28	24177			
108 12:38:26	-144.25	33962	108 13:37:57	-85.20	30437	108 12:19:07	-16.08	24178			
108 14:23:46	-170.71	33963	108 15:22:49	-111.54	30438	108 14:04:03	-42.44	24179			
108 16:09:07	162.83	33964	108 17:07:41	-137.89	30439	108 15:48:58	-68.79	24180			
108 17:54:28	136.36	33965	108 18:52:34	-164.23	30440	108 17:33:53	-95.15	24181			
108 19:39:49	109.90	33966	108 20:37:26	169.43	30441	108 19:18:49	-121.51	24182			
108 21:25:10	83.44	33967	108 22:22:18	143.08	30442	108 21:03:44	-147.86	24183			
108 23:10:30	56.98	33968				108 22:48:40	-174.22	24184			

West longitude is negative (-)

SATELLITE S2

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

105 00:00:01	-112.63	22355
105 01:41:44	-137.89	22356
105 03:23:47	-163.40	22357
105 05:05:50	171.09	22358
105 06:47:53	145.58	22359
105 08:29:56	120.07	22360
105 10:11:59	94.56	22361
105 11:54:02	69.05	22362
105 13:36:05	43.54	22363
105 15:18:08	18.03	22364
105 17:00:11	-7.48	22365
105 18:42:14	-32.99	22366
105 20:24:17	-58.50	22367
105 22:06:20	-84.01	22368
105 23:48:23	-109.52	22369

SATELLITE S3

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

105 00:19:49	-71.44	13370
105 02:01:04	-96.74	13371
105 03:42:20	-122.06	13372
105 05:23:36	-147.38	13373
105 07:04:52	-172.70	13374
105 08:46:08	161.99	13375
105 10:27:24	136.67	13376
105 12:08:40	111.35	13377
105 13:49:56	86.03	13378
105 15:31:11	60.73	13379
105 17:12:27	35.41	13380
105 18:53:43	10.09	13381
105 20:34:59	-15.23	13382
105 22:16:15	-40.55	13383
105 23:57:31	-65.86	13384

SATELLITE S4

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

105 00:32:05	-161.84	2857
105 02:14:12	172.64	2858
105 03:56:20	147.10	2859
105 05:38:27	121.57	2860
105 07:20:35	96.04	2861
105 09:02:42	70.51	2862
105 10:44:49	44.99	2863
105 12:26:57	19.45	2864
105 14:09:04	-6.08	2865
105 15:51:12	-31.61	2866
105 17:33:19	-57.14	2867
105 19:15:26	-82.66	2868
105 20:57:34	-108.20	2869
105 22:39:41	-133.73	2870

106 01:30:26	-135.03	22370
106 03:12:29	-160.54	22371
106 04:54:32	173.95	22372
106 06:36:35	148.44	22373
106 08:18:38	122.93	22374
106 10:00:41	97.42	22375
106 11:42:44	71.91	22376
106 13:24:47	46.39	22377
106 15:06:50	20.88	22378
106 16:48:53	-4.63	22379
106 18:30:56	-30.14	22380
106 20:12:59	-55.65	22381
106 21:53:02	-81.16	22382
106 23:37:04	-106.63	22383

106 01:38:47	-91.18	13385
106 03:20:03	-116.50	13386
106 05:01:18	-141.80	13387
106 06:42:34	-167.12	13388
106 08:23:50	167.56	13389
106 10:05:06	142.24	13390
106 11:46:22	116.92	13391
106 13:27:38	91.61	13392
106 15:08:54	66.29	13393
106 16:50:10	40.97	13394
106 18:31:25	15.66	13395
106 20:12:41	-9.65	13396
106 21:53:57	-34.97	13397
106 23:35:13	-60.29	13398

106 00:21:49	-159.27	2871
106 02:03:56	175.21	2872
106 03:46:03	149.68	2873
106 05:28:11	124.15	2874
106 07:10:18	98.62	2875
106 08:52:26	73.08	2876
106 10:34:33	47.56	2877
106 12:16:41	22.02	2878
106 13:56:48	-3.50	2879
106 15:40:55	-29.03	2880
106 17:23:03	-54.57	2881
106 19:05:10	-80.09	2882
106 20:47:18	-103.63	2883
106 22:29:25	-131.16	2884

107 01:19:07	-132.16	22384
107 03:01:10	-157.67	22385
107 04:43:13	176.81	22386
107 06:25:16	151.30	22387
107 08:07:19	125.79	22388
107 09:49:22	100.28	22389
107 11:31:23	74.77	22390
107 13:13:28	49.26	22391
107 14:55:31	23.75	22392
107 16:37:34	-1.76	22393
107 18:19:37	-27.27	22394
107 20:01:40	-52.78	22395
107 21:43:43	-78.29	22396
107 23:25:46	-103.80	22397

107 01:16:29	-85.61	13399
107 02:57:45	-110.93	13400
107 04:39:01	-136.24	13401
107 06:20:17	-161.56	13402
107 08:01:32	173.13	13403
107 09:42:48	147.81	13404
107 11:24:04	122.50	13405
107 13:05:20	97.18	13406
107 14:46:36	71.86	13407
107 16:27:52	46.54	13408
107 18:09:08	21.22	13409
107 19:50:24	-4.09	13410
107 21:31:40	-29.41	13411
107 23:12:55	-54.72	13412

107 00:11:32	-156.68	2885
107 01:53:40	177.78	2886
107 03:35:47	152.26	2887
107 05:17:55	126.72	2888
107 07:00:02	101.19	2889
107 08:42:09	75.67	2890
107 10:24:17	50.13	2891
107 12:06:24	24.61	2892
107 13:48:32	-9.93	2893
107 15:30:39	-26.46	2894
107 17:12:46	-51.98	2895
107 18:54:54	-77.32	2896
107 20:37:01	-103.05	2897
107 22:19:09	-128.58	2898

108 01:07:49	-129.31	22398
108 02:49:52	-154.82	22399
108 04:31:55	179.67	22400
108 06:13:58	154.16	22401
108 07:56:01	128.65	22402
108 09:38:04	103.14	22403
108 11:20:07	77.63	22404
108 13:02:10	52.12	22405
108 14:44:13	26.61	22406
108 16:26:16	1.10	22407
108 18:08:19	-24.41	22408
108 19:50:22	-49.92	22409
108 21:32:25	-75.44	22410
108 23:14:28	-100.95	22411

108 00:54:11	-80.03	13413
108 02:35:27	-105.35	13414
108 04:16:43	-130.67	13415
108 05:57:59	-155.99	13416
108 07:39:15	178.69	13417
108 09:20:31	153.37	13418
108 11:01:47	128.06	13419
108 12:43:02	102.75	13420
108 14:24:18	77.43	13421
108 16:05:34	52.12	13422
108 17:46:50	26.80	13423
108 19:28:06	1.48	13424
108 21:09:22	-23.84	13425
108 22:50:38	-49.16	13426

108 00:01:16	-154.11	2899
108 01:43:24	-179.65	2900
108 03:25:31	154.83	2901
108 05:07:38	129.30	2902
108 06:49:46	103.77	2903
108 08:31:53	78.24	2904
108 10:14:01	52.70	2905
108 11:36:08	27.18	2906
108 13:38:15	1.65	2907
108 15:20:23	-23.89	2908
108 17:02:30	-49.41	2909
108 18:44:38	-74.95	2910
108 20:26:45	-100.47	2911
108 22:08:52	-126.00	2912
108 23:31:00	-151.54	2913

SATELLITE C1
Ascending Node Predictions

Predicting for 183 days

 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

109 00:35:51	30.51	33969
109 02:41:12	4.05	33970
109 04:26:33	-22.41	33971
109 06:11:54	-48.87	33972
109 07:57:14	-75.34	33973
109 09:42:35	-101.80	33974
109 11:27:56	-128.26	33975
109 13:13:17	-154.72	33976
109 14:58:38	-178.82	33977
109 16:43:58	-152.35	33978
109 18:29:19	125.89	33979
109 20:14:40	99.43	33980
109 22:00:01	72.97	33981
109 23:45:22	46.50	33982

SATELLITE C2
Ascending Node Predictions

Predicting for 183 days

 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

109 00:07:10	116.74	30443
109 01:52:03	90.40	30444
109 03:36:55	64.05	30445
109 05:21:47	37.71	30446
109 07:06:39	11.37	30447
109 08:51:32	-14.98	30448
109 10:36:24	-41.32	30449
109 12:21:16	-67.66	30450
109 14:06:08	-94.01	30451
109 15:51:01	-120.35	30452
109 17:35:53	-146.69	30453
109 19:20:45	-173.04	30454
109 21:05:37	160.62	30455
109 22:50:29	134.28	30456

SATELLITE C3
Ascending Node Predictions

Predicting for 183 days

 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

109 00:33:35	159.42	24185
109 02:18:30	133.07	24186
109 04:03:26	106.71	24187
109 05:48:21	80.35	24188
109 07:33:17	54.00	24189
109 09:18:12	27.64	24190
109 11:03:08	1.29	24191
109 12:48:03	-25.07	24192
109 14:32:58	-51.43	24193
109 16:17:54	-77.78	24194
109 18:02:49	-104.14	24195
109 19:47:45	-130.30	24196
109 21:32:40	-156.85	24197
109 23:17:35	176.79	24198

110 01:30:42	20.04	33983
110 03:16:03	-6.42	33984
110 05:01:24	-32.88	33985
110 06:46:43	-59.35	33986
110 08:32:05	-85.81	33987
110 10:17:26	-112.27	33988
110 12:02:47	-138.73	33989
110 13:48:08	-165.20	33990
110 15:33:29	168.34	33991
110 17:18:49	141.88	33992
110 19:04:10	115.42	33993
110 20:49:31	88.95	33994
110 22:34:52	62.49	33995

110 00:35:22	107.94	30457
110 02:20:14	81.59	30458
110 04:05:06	55.25	30459
110 05:49:58	28.90	30460
110 07:34:51	2.56	30461
110 09:19:43	-23.78	30462
110 11:04:35	-50.13	30463
110 12:49:27	-76.47	30464
110 14:34:20	-102.81	30465
110 16:19:12	-129.15	30466
110 18:04:04	-155.50	30467
110 19:48:56	178.16	30468
110 21:33:49	151.82	30469
110 23:18:41	125.47	30470

110 01:02:31	150.43	24199
110 02:47:26	124.08	24200
110 04:32:22	97.72	24201
110 06:17:17	71.36	24202
110 08:02:12	45.01	24203
110 09:47:08	18.65	24204
110 11:32:03	-7.71	24205
110 13:16:59	-34.06	24206
110 15:01:54	-60.42	24207
110 16:46:49	-86.78	24208
110 18:31:45	-113.13	24209
110 20:16:40	-139.49	24210
110 22:01:36	-165.84	24211
110 23:46:31	167.80	24212

111 00:20:13	36.03	33996
111 02:05:34	9.57	33997
111 03:50:54	-16.90	33998
111 05:36:15	-43.36	33999
111 07:21:36	-69.82	34000
111 09:06:57	-96.28	34001
111 10:52:18	-122.74	34002
111 12:37:38	-149.21	34003
111 14:22:59	-175.67	34004
111 16:08:20	137.87	34005
111 17:53:41	131.41	34006
111 19:39:02	104.94	34007
111 21:24:22	78.48	34008
111 23:09:43	52.02	34009

111 01:03:33	99.13	30471
111 02:48:25	72.78	30472
111 04:33:18	46.44	30473
111 06:18:10	20.10	30474
111 08:03:02	-6.24	30475
111 09:47:54	-32.59	30476
111 11:32:47	-58.93	30477
111 13:17:39	-85.27	30478
111 15:02:31	-111.62	30479
111 16:47:23	-137.96	30480
111 18:32:16	-164.30	30481
111 20:17:08	169.35	30482
111 22:02:00	143.01	30483
111 23:46:52	116.67	30484

111 01:31:27	141.45	24213
111 03:16:22	115.09	24214
111 05:01:17	88.73	24215
111 06:46:13	62.38	24216
111 08:31:08	36.02	24217
111 10:16:04	9.66	24218
111 12:00:59	-16.69	24219
111 13:45:54	-43.05	24220
111 15:30:50	-69.41	24221
111 17:15:45	-95.76	24222
111 19:00:41	-122.12	24223
111 20:45:36	-148.48	24224
111 22:30:31	-174.83	24225

112 00:55:04	23.56	34010
112 02:40:25	-9.91	34011
112 04:25:46	-27.37	34012
112 06:11:06	-53.83	34013
112 07:56:27	-80.29	34014
112 09:41:48	-106.76	34015
112 11:27:09	-133.22	34016
112 13:12:30	-159.68	34017
112 14:57:50	173.86	34018
112 16:43:11	147.39	34019
112 18:28:32	120.93	34020
112 20:13:53	94.47	34021
112 21:59:14	68.01	34022
112 23:44:34	41.54	34023

112 01:31:45	90.32	30485
112 03:16:37	63.98	30486
112 05:01:29	37.64	30487
112 06:46:21	11.29	30488
112 08:31:14	-15.05	30489
112 10:16:06	-41.39	30490
112 12:00:58	-67.74	30491
112 13:45:50	-94.08	30492
112 15:30:43	-120.42	30493
112 17:15:35	-146.77	30494
112 19:00:27	-173.11	30495
112 20:45:19	160.55	30496
112 22:30:12	134.20	30497

112 00:13:27	138.81	24226
112 02:00:22	132.45	24227
112 03:45:18	106.10	24228
112 05:30:13	79.74	24229
112 07:15:08	53.38	24230
112 09:00:04	27.03	24231
112 10:44:59	.67	24232
112 12:29:55	-25.68	24233
112 14:14:50	-52.04	24234
112 15:59:46	-78.40	24235
112 17:44:41	-104.75	24236
112 19:29:36	-131.11	24237
112 21:14:32	-157.47	24238
112 22:59:27	176.18	24239

SATELLITE S2

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

109 00:36:31	-126.46	22412
109 02:38:34	-151.97	22413
109 04:20:37	-177.48	22414
109 06:02:40	157.01	22415
109 07:44:43	131.50	22416
109 09:26:46	105.99	22417
109 11:08:49	80.48	22418
109 12:50:52	54.97	22419
109 14:32:55	29.46	22420
109 16:14:58	3.95	22421
109 17:57:01	-21.56	22422
109 19:39:04	-47.07	22423
109 21:21:07	-72.58	22424
109 23:03:10	-98.09	22425

SATELLITE S3

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

109 00:31:54	-74.47	13427
109 02:13:09	-99.78	13428
109 03:54:25	-125.10	13429
109 05:35:41	-150.42	13430
109 07:16:57	-175.73	13431
109 08:58:13	158.95	13432
109 10:39:29	133.63	13433
109 12:20:45	108.31	13434
109 14:02:01	82.99	13435
109 15:43:16	57.69	13436
109 17:24:32	32.37	13437
109 19:05:48	7.05	13438
109 20:47:04	-18.27	13439
109 22:28:20	-43.58	13440

SATELLITE S4

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

109 01:33:07	-177.06	2914
109 03:15:15	157.40	2915
109 04:57:22	131.88	2916
109 06:39:29	106.35	2917
109 08:21:37	80.81	2918
109 10:03:44	55.29	2919
109 11:45:52	29.75	2920
109 13:27:59	4.22	2921
109 15:10:06	-21.30	2922
109 16:52:14	-46.84	2923
109 18:34:21	-72.36	2924
109 20:16:29	-97.90	2925
109 21:58:36	-123.43	2926
109 23:40:44	-148.96	2927

110 00:45:13	-123.60	22426
110 02:27:16	-149.11	22427
110 04:09:19	-174.62	22428
110 05:51:22	159.87	22429
110 07:33:25	134.36	22430
110 09:15:28	108.05	22431
110 10:57:31	83.34	22432
110 12:39:33	57.84	22433
110 14:21:36	32.33	22434
110 16:03:39	6.82	22435
110 17:45:42	-18.69	22436
110 19:27:45	-44.20	22437
110 21:09:48	-69.71	22438
110 22:51:51	-95.22	22439

110 00:09:36	-68.90	13441
110 01:50:52	-94.22	13442
110 03:32:08	-119.54	13443
110 05:13:23	-144.84	13444
110 06:54:39	-170.16	13445
110 08:35:55	164.52	13446
110 10:17:11	139.20	13447
110 11:58:27	113.89	13448
110 13:39:43	88.57	13449
110 15:20:59	63.25	13450
110 17:02:15	37.93	13451
110 18:43:30	12.63	13452
110 20:24:46	-12.69	13453
110 22:06:02	-38.01	13454
110 23:47:18	-63.33	13455

110 01:22:31	-174.49	2928
110 03:04:58	159.99	2929
110 04:47:06	134.45	2930
110 06:29:13	108.92	2931
110 08:11:21	83.38	2932
110 09:53:28	57.86	2933
110 11:35:35	32.34	2934
110 13:17:43	6.80	2935
110 14:59:50	-18.73	2936
110 16:41:58	-44.27	2937
110 18:24:05	-69.79	2938
110 20:06:12	-95.32	2939
110 21:48:20	-120.85	2940
110 23:30:27	-146.38	2941

111 00:33:34	-120.73	22440
111 02:15:57	-146.24	22441
111 03:58:00	-171.75	22442
111 05:40:03	162.73	22443
111 07:22:06	137.22	22444
111 09:04:09	111.71	22445
111 10:46:12	86.20	22446
111 12:28:15	60.69	22447
111 14:10:18	35.18	22448
111 15:52:21	9.67	22449
111 17:34:24	-15.94	22450
111 19:16:27	-41.35	22451
111 20:58:30	-66.86	22452
111 22:40:33	-92.37	22453

111 01:28:34	-88.65	13456
111 03:09:50	-113.96	13457
111 04:51:06	-139.28	13458
111 06:32:22	-164.60	13459
111 08:13:37	170.09	13460
111 09:54:53	144.78	13461
111 11:36:09	119.46	13462
111 13:17:25	94.14	13463
111 14:58:41	68.82	13464
111 16:39:57	43.50	13465
111 18:21:13	18.19	13466
111 20:02:29	-7.13	13467
111 21:43:44	-32.44	13468
111 23:25:00	-57.76	13469

111 01:12:35	-171.92	2942
111 02:54:42	162.56	2943
111 04:36:49	137.03	2944
111 06:18:57	111.49	2945
111 08:01:04	85.97	2946
111 09:43:12	60.43	2947
111 11:25:19	34.91	2948
111 13:07:26	9.38	2949
111 14:49:34	-16.16	2950
111 16:31:41	-41.68	2951
111 18:13:49	-67.22	2952
111 19:55:56	-92.74	2953
111 21:38:04	-118.28	2954
111 23:20:11	-143.81	2955

112 00:22:36	-117.88	22454
112 02:04:39	-143.39	22455
112 03:46:42	-168.90	22456
112 05:28:45	165.59	22457
112 07:10:48	140.08	22458
112 08:52:51	114.57	22459
112 10:34:54	89.06	22460
112 12:16:57	63.55	22461
112 13:59:00	38.04	22462
112 15:41:03	12.53	22463
112 17:23:06	-12.98	22464
112 19:05:09	-38.49	22465
112 20:47:12	-64.01	22466
112 22:29:15	-89.52	22467

112 01:06:16	-83.07	13470
112 02:47:32	-108.39	13471
112 04:28:48	-133.71	13472
112 06:10:04	-139.03	13473
112 07:51:20	175.65	13474
112 09:32:36	150.34	13475
112 11:13:51	125.03	13476
112 12:55:07	99.71	13477
112 14:36:23	74.39	13478
112 16:17:39	49.08	13479
112 17:58:55	23.76	13480
112 19:40:11	-1.56	13481
112 21:21:27	-26.88	13482
112 23:02:43	-52.20	13483

112 01:02:18	-169.33	2956
112 02:44:26	165.13	2957
112 04:26:33	139.60	2958
112 06:08:41	114.07	2959
112 07:50:48	88.54	2960
112 09:32:55	63.02	2961
112 11:15:03	37.48	2962
112 12:57:10	11.95	2963
112 14:39:18	-13.58	2964
112 16:21:25	-39.11	2965
112 18:03:32	-64.63	2966
112 19:45:40	-90.17	2967
112 21:27:47	-115.70	2968
112 23:09:55	-141.24	2969

SATELLITE C1				SATELLITE C2				SATELLITE C3			
Ascending Node Predictions				Ascending Node Predictions				Ascending Node Predictions			
Predicting for 183 days				Predicting for 183 days				Predicting for 183 days			
TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	day	hr mn sc	deg dg
day	hr	mn	sc	deg	dg	day	hr	mn	sc	deg	dg
113 01:29:55	15.08	34024	113 00:15:04	107.86	30498	113 00:44:23	149.82	24240			
113 03:15:16	-11.38	34025	113 01:59:56	81.50	30499	113 02:29:18	123.46	24241			
113 05:00:37	-37.84	34026	113 03:44:48	55.17	30500	113 04:14:13	97.11	24242			
113 06:45:58	-64.30	34027	113 05:29:41	28.83	30501	113 05:59:09	70.75	24243			
113 08:31:18	-90.77	34028	113 07:14:33	2.49	30502	113 07:44:04	44.39	24244			
113 10:16:39	-117.23	34029	113 08:59:25	-23.86	30503	113 09:29:00	18.04	24245			
113 12:02:00	-143.69	34030	113 10:44:17	-50.20	30504	113 11:13:55	-8.32	24246			
113 13:47:21	-170.15	34031	113 12:29:10	-76.54	30505	113 12:58:50	-34.68	24247			
113 15:32:42	163.38	34032	113 14:14:02	-102.89	30506	113 14:43:46	-61.03	24248			
113 17:18:02	136.92	34033	113 15:58:54	-129.23	30507	113 16:28:41	-87.39	24249			
113 19:03:23	110.46	34034	113 17:43:46	-155.57	30508	113 18:13:37	-113.74	24250			
113 20:48:44	84.00	34035	113 19:28:39	178.09	30509	113 19:58:32	-140.10	24251			
113 22:34:05	57.53	34036	113 21:13:31	151.74	30510	113 21:43:27	-166.46	24252			
			113 22:58:23	125.40	30511	113 23:28:23	167.19	24253			
114 00:19:26	31.07	34037	114 00:43:15	99.05	30512	114 01:13:18	140.83	24254			
114 02:04:46	4.61	34038	114 02:28:08	72.71	30513	114 02:58:14	114.48	24255			
114 03:50:07	-21.85	34039	114 04:13:00	46.37	30514	114 04:43:09	88.12	24256			
114 05:35:28	-48.32	34040	114 05:57:52	20.02	30515	114 06:28:04	61.76	24257			
114 07:20:49	-74.78	34041	114 07:42:44	-6.32	30516	114 08:13:00	35.41	24258			
114 09:06:10	-101.24	34042	114 09:27:37	-32.66	30517	114 09:57:55	9.05	24259			
114 10:51:30	-127.70	34043	114 11:12:29	-59.00	30518	114 11:42:51	-17.31	24260			
114 12:36:51	-154.17	34044	114 12:57:21	-85.35	30519	114 13:27:46	-43.66	24261			
114 14:22:12	179.37	34045	114 14:42:13	-111.69	30520	114 15:12:42	-70.02	24262			
114 16:07:33	152.91	34046	114 16:27:06	-138.03	30521	114 16:57:37	-96.38	24263			
114 17:52:54	126.45	34047	114 18:11:58	-164.38	30522	114 18:42:32	-122.73	24264			
114 19:38:14	99.98	34048	114 19:56:50	169.28	30523	114 20:27:28	-149.09	24265			
114 21:23:35	73.52	34049	114 21:41:42	142.93	30524	114 22:12:23	-175.45	24266			
114 23:08:56	47.06	34050	114 23:26:35	116.59	30525	114 23:57:19	158.20	24267			
115 00:54:17	20.60	34051	115 01:11:27	90.25	30526	115 01:42:14	131.84	24268			
115 02:39:38	-5.86	34052	115 02:56:19	63.91	30527	115 03:27:09	105.48	24269			
115 04:24:58	-32.33	34053	115 04:41:11	37.56	30528	115 05:12:05	79.13	24270			
115 06:10:19	-58.79	34054	115 06:26:04	11.22	30529	115 06:57:00	52.77	24271			
115 07:55:40	-85.25	34055	115 08:10:56	-15.12	30530	115 08:41:56	26.42	24272			
115 09:41:01	-111.71	34056	115 09:55:48	-41.47	30531	115 10:26:51	.06	24273			
115 11:26:22	-138.18	34057	115 11:40:40	-67.81	30532	115 12:11:46	-26.30	24274			
115 13:11:42	-164.64	34058	115 13:25:33	-94.15	30533	115 13:36:42	-52.65	24275			
115 14:57:03	168.90	34059	115 15:10:25	-120.50	30534	115 15:41:37	-79.01	24276			
115 16:42:24	142.44	34060	115 16:55:17	-146.94	30535	115 17:26:33	-105.36	24277			
115 18:27:45	115.97	34061	115 18:40:09	-173.19	30536	115 19:11:28	-131.72	24278			
115 20:13:06	89.51	34062	115 20:25:02	160.47	30537	115 20:56:23	-158.08	24279			
115 21:58:26	63.05	34063	115 22:09:34	134.13	30538	115 22:41:19	175.57	24280			
115 23:43:47	36.59	34064	115 23:54:46	107.79	30539						
116 01:29:08	10.12	34065	116 01:39:38	81.44	30540	116 00:26:14	149.21	24281			
116 03:14:29	-16.34	34066	116 03:24:31	55.10	30541	116 02:11:10	122.85	24282			
116 04:59:50	-42.80	34067	116 05:09:23	28.76	30542	116 03:56:05	96.50	24283			
116 06:45:10	-69.27	34068	116 06:54:15	2.41	30543	116 05:41:00	70.14	24284			
116 08:30:31	-95.73	34069	116 08:39:07	-23.93	30544	116 07:25:56	43.78	24285			
116 10:15:52	-122.19	34070	116 10:24:00	-50.27	30545	116 09:10:51	17.43	24286			
116 12:01:13	-148.65	34071	116 12:08:52	-76.62	30546	116 10:55:47	-8.93	24287			
116 13:46:34	-175.11	34072	116 13:53:44	-102.96	30547	116 12:40:42	-35.29	24288			
116 15:31:55	158.43	34073	116 15:38:36	-129.30	30548	116 14:25:37	-61.64	24289			
116 17:17:15	131.96	34074	116 17:23:29	-155.65	30549	116 16:10:33	-88.00	24290			
116 19:02:36	105.50	34075	116 19:08:21	178.01	30550	116 17:55:28	-114.36	24291			
116 20:47:57	79.04	34076	116 20:53:13	151.67	30551	116 19:40:24	-140.71	24292			
116 22:33:18	52.58	34077	116 22:38:05	125.32	30552	116 21:23:19	-167.07	24293			
						116 23:10:14	166.57	24294			

West longitude is negative (-)

SATELLITE S2

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) **E LONG ORBIT**
day hr mn sc **deg dg**

113 00:11:18	-115.03	22468
113 01:53:21	-140.54	22469
113 03:35:24	-166.05	22470
113 05:17:27	168.44	22471
113 06:59:30	142.93	22472
113 08:41:33	117.42	22473
113 10:23:36	91.91	22474
113 12:05:39	66.40	22475
113 13:47:42	40.89	22476
113 15:29:45	15.38	22477
113 17:11:48	-10.13	22478
113 18:53:51	-35.64	22479
113 20:35:53	-61.14	22480
113 22:17:56	-86.65	22481
113 23:59:59	-112.16	22482

SATELLITE S3

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) **E LONG ORBIT**
day hr mn sc **deg dg**

113 00:43:58	-77.50	13484
113 02:25:14	-102.82	13485
113 04:06:30	-128.14	13486
113 05:47:46	-153.45	13487
113 07:29:02	-178.77	13488
113 09:10:18	155.91	13489
113 10:51:34	130.59	13490
113 12:32:50	105.27	13491
113 14:14:05	79.97	13492
113 15:55:21	54.65	13493
113 17:36:37	29.33	13494
113 19:17:53	4.01	13495
113 20:59:09	-21.30	13496
113 22:40:25	-46.62	13497

SATELLITE S4

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) **E LONG ORBIT**
day hr mn sc **deg dg**

113 00:52:02	-166.76	2970
113 02:34:09	167.72	2971
113 04:16:17	142.18	2972
113 05:58:24	116.65	2973
113 07:40:32	91.11	2974
113 09:22:39	65.59	2975
113 11:04:46	40.06	2976
113 12:46:54	14.53	2977
113 14:29:01	-11.00	2978
113 16:11:09	-36.54	2979
113 17:53:16	-62.06	2980
113 19:35:24	-87.60	2981
113 21:17:31	-113.13	2982
113 22:59:38	-138.65	2983

114 01:42:02	-137.67	22483
114 03:24:05	-163.18	22484
114 05:06:08	171.31	22485
114 06:48:11	145.80	22486
114 08:30:14	120.29	22487
114 10:12:17	94.78	22488
114 11:54:20	69.27	22489
114 13:36:23	43.76	22490
114 15:18:26	18.25	22491
114 17:00:29	-7.26	22492
114 18:42:32	-32.77	22493
114 20:24:35	-58.28	22494
114 22:06:38	-83.79	22495
114 23:48:41	-109.30	22496

114 00:21:41	-71.94	13498
114 02:02:57	-97.26	13499
114 03:44:12	-122.56	13500
114 05:25:28	-147.88	13501
114 07:06:44	-173.20	13502
114 08:48:00	161.48	13503
114 10:29:16	136.16	13504
114 12:10:32	110.85	13505
114 13:51:48	85.77	13506
114 15:33:04	60.21	13507
114 17:14:19	34.90	13508
114 18:55:35	9.59	13509
114 20:36:51	-15.73	13510
114 22:18:07	-41.05	13511
114 23:59:23	-66.37	13512

114 00:41:46	-164.19	2984
114 02:23:53	170.29	2985
114 04:06:01	144.75	2986
114 05:48:08	119.22	2987
114 07:30:15	93.70	2988
114 09:12:23	68.16	2989
114 10:54:30	42.64	2990
114 12:36:38	17.10	2991
114 14:18:45	-8.43	2992
114 16:00:52	-33.93	2993
114 17:43:00	-59.49	2994
114 19:25:07	-85.02	2995
114 21:07:15	-110.55	2996
114 22:49:22	-136.08	2997

115 01:30:44	-134.82	22497
115 03:12:47	-160.33	22498
115 04:54:50	174.16	22499
115 06:36:53	148.65	22500
115 08:18:56	123.14	22501
115 10:00:59	97.63	22502
115 11:43:02	72.12	22503
115 13:25:05	46.61	22504
115 15:07:08	21.10	22505
115 16:49:11	-4.41	22506
115 18:31:14	-29.92	22507
115 20:13:17	-53.43	22508
115 21:55:20	-80.94	22509
115 23:37:23	-106.45	22510

115 01:40:39	-91.69	13513
115 03:21:55	-117.00	13514
115 05:03:11	-142.32	13515
115 06:44:26	-167.63	13516
115 08:25:42	167.05	13517
115 10:06:58	141.74	13518
115 11:48:14	116.42	13519
115 13:29:30	91.10	13520
115 15:10:46	65.78	13521
115 16:52:02	40.46	13522
115 18:33:18	15.15	13523
115 20:14:33	-10.16	13524
115 21:55:49	-35.48	13525
115 23:37:05	-60.80	13526

115 00:31:29	-161.60	2998
115 02:13:37	172.86	2999
115 03:55:44	147.33	3000
115 05:37:52	121.80	3001
115 07:19:59	96.27	3002
115 09:02:06	70.75	3003
115 10:44:14	45.21	3004
115 12:26:21	19.68	3005
115 14:08:29	-5.86	3006
115 15:50:36	-31.38	3007
115 17:32:44	-56.92	3008
115 19:14:51	-82.44	3009
115 20:56:58	-107.97	3010
115 22:39:06	-133.51	3011

116 01:19:26	-131.96	22511
116 03:01:29	-157.47	22512
116 04:43:32	177.02	22513
116 06:25:35	151.51	22514
116 08:07:38	126.00	22515
116 09:49:41	100.49	22516
116 11:31:44	74.98	22517
116 13:13:47	49.47	22518
116 14:55:50	23.96	22519
116 16:37:53	-1.56	22520
116 18:19:56	-27.07	22521
116 20:01:59	-52.58	22522
116 21:44:01	-78.07	22523
116 23:26:04	-103.58	22524

116 01:18:21	-86.11	13527
116 02:59:37	-111.43	13528
116 04:40:53	-136.75	13529
116 06:22:09	-162.07	13530
116 08:03:25	172.61	13531
116 09:44:40	147.31	13532
116 11:25:56	121.99	13533
116 13:07:12	96.67	13534
116 14:48:28	71.36	13535
116 16:29:44	46.04	13536
116 18:11:00	20.72	13537
116 19:52:16	-4.60	13538
116 21:33:32	-29.92	13539
116 23:14:47	-55.22	13540

116 00:21:13	-159.03	3012
116 02:03:21	175.43	3013
116 03:45:28	149.91	3014
116 05:27:35	124.38	3015
116 07:09:43	98.84	3016
116 08:51:50	73.32	3017
116 10:33:58	47.78	3018
116 12:16:05	22.25	3019
116 13:58:12	-3.27	3020
116 15:40:20	-28.81	3021
116 17:22:27	-54.33	3022
116 19:04:35	-79.87	3023
116 20:46:42	-103.40	3024
116 22:28:49	-130.92	3025

SATELLITE C1**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

117 00:18:39	26.11	34078
117 02:03:59	-35	34079
117 03:49:20	-26.81	34080
117 05:34:41	-53.28	34081
117 07:20:02	-79.74	34082
117 09:05:23	-106.20	34083
117 10:50:43	-132.66	34084
117 12:36:04	-159.13	34085
117 14:21:25	174.41	34086
117 16:06:46	147.95	34087
117 17:52:07	121.49	34088
117 19:37:27	95.02	34089
117 21:22:48	68.56	34090
117 23:08:09	42.10	34091

SATELLITE C2**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

117 00:22:58	98.98	30553
117 02:07:50	72.64	30554
117 03:52:42	46.29	30555
117 05:37:34	19.95	30556
117 07:22:27	-6.39	30557
117 09:07:19	-32.74	30558
117 10:52:11	-59.08	30559
117 12:37:03	-85.42	30560
117 14:21:56	-111.77	30561
117 16:06:48	-138.11	30562
117 17:51:40	-164.45	30563
117 19:36:32	169.20	30564
117 21:21:25	142.86	30565
117 23:06:17	116.52	30566

SATELLITE C3**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

117 00:55:10	140.22	24295
117 02:40:05	113.86	24296
117 04:25:01	87.51	24297
117 06:09:56	61.15	24298
117 07:54:52	34.79	24299
117 09:39:47	8.44	24300
117 11:24:42	-17.92	24301
117 13:09:38	-44.27	24302
117 14:54:33	-70.63	24303
117 16:39:29	-96.99	24304
117 18:24:24	-123.34	24305
117 20:09:19	-149.70	24306
117 21:34:15	-176.06	24307
117 23:39:10	157.59	24308

118 00:53:30	15.64	34092
118 02:38:51	-10.82	34093
118 04:24:11	-37.29	34094
118 06:09:32	-63.75	34095
118 07:54:53	-90.21	34096
118 09:40:14	-116.67	34097
118 11:25:35	-143.14	34098
118 13:10:55	-169.60	34099
118 14:56:16	163.94	34100
118 16:41:37	137.48	34101
118 18:26:58	111.01	34102
118 20:12:19	84.55	34103
118 21:57:40	58.09	34104
118 23:43:00	31.63	34105

118 00:31:09	90.17	30567
118 02:36:01	63.83	30568
118 04:20:54	37.49	30569
118 06:05:46	11.14	30570
118 07:50:38	-15.20	30571
118 09:35:30	-41.34	30572
118 11:20:23	-67.88	30573
118 13:05:15	-94.23	30574
118 14:50:07	-120.57	30575
118 16:34:59	-146.92	30576
118 18:19:52	-173.26	30577
118 20:04:44	160.40	30578
118 21:49:36	134.05	30579
118 23:34:28	107.71	30580

118 01:24:06	131.23	24309
118 03:09:01	104.87	24310
118 04:53:56	78.52	24311
118 06:38:52	52.16	24312
118 08:23:47	25.80	24313
118 10:08:43	-5.55	24314
118 11:53:38	-26.91	24315
118 13:38:33	-53.27	24316
118 15:23:29	-79.62	24317
118 17:08:24	-105.98	24318
118 18:53:20	-132.33	24319
118 20:38:15	-158.69	24320
118 22:23:10	174.95	24321

119 01:28:21	5.16	34106
119 03:13:42	-21.30	34107
119 04:59:03	-47.76	34108
119 06:44:24	-74.22	34109
119 08:29:44	-100.69	34110
119 10:15:05	-127.15	34111
119 12:00:26	-153.61	34112
119 13:45:47	179.93	34113
119 15:31:08	153.47	34114
119 17:16:28	127.00	34115
119 19:01:49	100.54	34116
119 20:47:10	74.08	34117
119 22:32:31	47.62	34118

119 01:19:21	81.37	30581
119 03:04:13	55.02	30582
119 04:49:05	28.68	30583
119 06:33:57	2.34	30584
119 08:18:50	-24.00	30585
119 10:03:42	-50.35	30586
119 11:48:34	-76.69	30587
119 13:33:26	-103.04	30588
119 15:18:19	-129.38	30589
119 17:03:11	-155.72	30590
119 18:48:03	177.93	30591
119 20:32:55	151.59	30592
119 22:17:48	125.25	30593

119 00:08:06	148.60	24322
119 01:33:01	122.24	24323
119 03:37:57	95.88	24324
119 05:22:52	69.53	24325
119 07:07:47	43.17	24326
119 08:52:43	16.82	24327
119 10:37:38	-9.54	24328
119 12:22:34	-35.90	24329
119 14:07:29	-62.25	24330
119 15:52:24	-88.61	24331
119 17:37:20	-114.97	24332
119 19:22:15	-141.32	24333
119 21:07:11	-167.68	24334
119 22:52:06	165.96	24335

120 00:17:52	21.15	34119
120 02:03:12	-5.31	34120
120 03:48:33	-31.77	34121
120 05:33:54	-58.23	34122
120 07:19:15	-84.70	34123
120 09:04:36	-111.16	34124
120 10:49:56	-137.62	34125
120 12:35:17	-164.09	34126
120 14:20:38	169.45	34127
120 16:05:59	142.99	34128
120 17:51:20	116.53	34129
120 19:36:40	90.06	34130
120 21:22:01	63.60	34131
120 23:07:22	37.14	34132

120 00:02:40	98.90	30594
120 01:47:32	72.56	30595
120 03:32:24	46.22	30596
120 05:17:17	19.88	30597
120 07:02:09	-6.47	30598
120 08:47:01	-32.81	30599
120 10:31:53	-59.16	30600
120 12:16:46	-85.30	30601
120 14:01:38	-111.84	30602
120 15:46:30	-138.19	30603
120 17:31:22	-164.53	30604
120 19:16:15	169.13	30605
120 21:01:07	142.79	30606
120 22:45:59	116.44	30607

120 00:37:01	139.61	24336
120 02:21:57	113.25	24337
120 04:06:52	86.89	24338
120 05:51:48	60.54	24339
120 07:36:43	34.18	24340
120 09:21:38	7.82	24341
120 11:06:34	-18.53	24342
120 12:51:29	-44.89	24343
120 14:36:25	-71.24	24344
120 16:21:20	-97.60	24345
120 18:06:15	-123.96	24346
120 19:51:11	-150.31	24347
120 21:36:06	-176.67	24348
120 23:21:02	156.97	24349

SATELLITE S2

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

117 01:08:07	-129.09	22525
117 02:50:10	-154.60	22526
117 04:32:13	179.89	22527
117 06:14:16	154.37	22528
117 07:56:19	128.86	22529
117 09:38:22	103.35	22530
117 11:20:25	77.84	22531
117 13:02:28	52.33	22532
117 14:44:31	26.82	22533
117 16:26:34	1.31	22534
117 18:08:37	-24.20	22535
117 19:50:40	-49.71	22536
117 21:32:43	-75.22	22537
117 23:14:46	-100.73	22538

SATELLITE S3

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

117 00:56:03	-80.54	13541
117 02:37:19	-105.86	13542
117 04:18:35	-131.18	13543
117 05:59:51	-156.49	13544
117 07:41:07	-178.19	13545
117 09:22:23	-152.87	13546
117 11:03:39	-127.55	13547
117 12:44:54	102.25	13548
117 14:26:10	76.93	13549
117 16:07:26	51.61	13550
117 17:48:42	26.29	13551
117 19:29:58	.97	13552
117 21:11:14	-24.34	13553
117 22:52:30	-49.66	13554

SATELLITE S4

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

117 00:10:57	-156.46	3026
117 01:53:04	178.02	3027
117 03:35:12	152.48	3028
117 05:17:19	126.95	3029
117 06:59:26	101.43	3030
117 08:41:34	75.89	3031
117 10:23:41	50.36	3032
117 12:05:49	24.83	3033
117 13:47:56	-.70	3034
117 15:30:03	-26.22	3035
117 17:12:11	-51.76	3036
117 18:54:18	-77.29	3037
117 20:36:26	-102.82	3038
117 22:18:33	-128.35	3039

118 00:56:49	-126.24	22539
118 02:38:52	-151.75	22540
118 04:20:55	-177.26	22541
118 06:02:58	157.23	22542
118 07:45:01	131.72	22543
118 09:27:04	106.21	22544
118 11:09:07	80.70	22545
118 12:51:10	55.19	22546
118 14:33:13	29.68	22547
118 16:15:16	4.17	22548
118 17:57:19	-21.34	22549
118 19:39:22	-46.86	22550
118 21:21:25	-72.37	22551
118 23:03:28	-97.88	22552

118 00:33:46	-74.98	13555
118 02:15:01	-100.29	13556
118 03:56:17	-125.60	13557
118 05:37:33	-150.92	13558
118 07:18:49	-176.24	13559
118 09:00:05	158.44	13560
118 10:41:21	133.12	13561
118 12:22:37	107.81	13562
118 14:03:53	82.49	13563
118 15:45:08	57.18	13564
118 17:26:24	31.86	13565
118 19:07:40	6.55	13566
118 20:48:56	-18.77	13567
118 22:30:12	-44.09	13568

118 00:00:41	-153.89	3040
118 01:42:48	-179.41	3041
118 03:24:55	155.06	3042
118 05:07:03	129.52	3043
118 06:49:10	104.00	3044
118 08:31:18	78.46	3045
118 10:13:25	52.94	3046
118 11:55:32	27.41	3047
118 13:37:40	1.87	3048
118 15:19:47	-23.65	3049
118 17:01:55	-49.19	3050
118 18:44:02	-74.71	3051
118 20:26:09	-100.24	3052
118 22:08:17	-125.78	3053
118 23:50:24	-151.30	3054

119 00:45:31	-123.39	22553
119 02:27:34	-148.90	22554
119 04:09:37	-174.41	22555
119 05:51:40	160.08	22556
119 07:33:43	134.57	22557
119 09:15:46	109.06	22558
119 10:57:49	83.55	22559
119 12:39:32	58.04	22560
119 14:21:55	32.53	22561
119 16:03:58	7.02	22562
119 17:46:01	-18.49	22563
119 19:28:03	-43.99	22564
119 21:10:06	-69.50	22565
119 22:52:09	-95.01	22566

119 00:11:28	-69.41	13569
119 01:52:44	-94.73	13570
119 03:34:00	-120.04	13571
119 05:15:15	-145.35	13572
119 06:56:31	-170.67	13573
119 08:37:47	164.01	13574
119 10:19:03	138.70	13575
119 12:00:19	113.38	13576
119 13:41:35	88.06	13577
119 15:22:51	62.74	13578
119 17:04:07	37.42	13579
119 18:45:22	12.12	13580
119 20:26:38	-13.20	13581
119 22:07:54	-38.52	13582
119 23:49:10	-63.84	13583

119 01:32:32	-176.84	3055
119 03:14:39	157.63	3056
119 04:56:46	132.11	3057
119 06:38:54	106.57	3058
119 08:21:01	81.05	3059
119 10:03:09	55.51	3060
119 11:45:16	29.98	3061
119 13:27:23	4.46	3062
119 15:09:31	-21.08	3063
119 16:51:38	-46.60	3064
119 18:33:46	-72.14	3065
119 20:15:53	-97.67	3066
119 21:58:00	-123.19	3067
119 23:40:08	-148.73	3068

120 00:34:12	-120.52	22567
120 02:16:15	-146.03	22568
120 03:58:18	-171.54	22569
120 05:40:21	162.95	22570
120 07:22:24	137.44	22571
120 09:04:27	111.93	22572
120 10:46:30	86.42	22573
120 12:28:33	60.91	22574
120 14:10:36	35.40	22575
120 15:52:39	9.89	22576
120 17:34:42	-15.62	22577
120 19:16:45	-41.13	22578
120 20:58:48	-66.65	22579
120 22:40:51	-92.16	22580

120 01:30:26	-89.15	13584
120 03:11:42	-114.47	13585
120 04:32:58	-139.79	13586
120 06:34:14	-165.11	13587
120 08:15:29	169.59	13588
120 09:56:45	144.27	13589
120 11:38:01	118.95	13590
120 13:19:17	93.63	13591
120 15:00:33	68.31	13592
120 16:41:49	43.00	13593
120 18:23:05	17.68	13594
120 20:04:21	-7.64	13595
120 21:45:36	-32.94	13596
120 23:26:52	-58.26	13597

120 01:22:15	-174.26	3069
120 03:04:23	160.21	3070
120 04:46:30	134.68	3071
120 06:28:38	109.14	3072
120 08:10:45	83.62	3073
120 09:52:52	58.09	3074
120 11:35:00	32.55	3075
120 13:17:07	7.03	3076
120 14:59:15	-18.51	3077
120 16:41:22	-44.03	3078
120 18:23:29	-69.56	3079
120 20:05:37	-95.10	3080
120 21:47:44	-120.62	3081
120 23:29:52	-146.16	3082

SATELLITE C1

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) **E LONG** **ORBIT**
 day hr mn sc deg dg

121 00:32:43	10.68	34133
121 02:39:04	-15.78	34134
121 04:23:25	-42.24	34135
121 06:08:45	-68.71	34136
121 07:54:06	-95.17	34137
121 09:39:27	-121.63	34138
121 11:24:48	-148.10	34139
121 13:10:09	-174.56	34140
121 14:53:29	-158.98	34141
121 16:40:50	-132.52	34142
121 18:26:11	106.05	34143
121 20:11:32	79.59	34144
121 21:56:53	53.13	34145
121 23:42:13	26.67	34146

SATELLITE C2

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) **E LONG** **ORBIT**
 day hr mn sc deg dg

121 00:30:52	90.10	30608
121 02:15:44	63.76	30609
121 04:00:36	37.41	30610
121 05:45:28	11.07	30611
121 07:30:21	-15.27	30612
121 09:15:13	-41.62	30613
121 11:00:05	-67.96	30614
121 12:44:57	-94.31	30615
121 14:29:50	-120.65	30616
121 16:14:42	-120.65	30616
121 17:59:34	-173.33	30618
121 19:44:26	160.32	30619
121 21:29:19	133.98	30620
121 23:14:11	107.64	30621

SATELLITE C3

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) **E LONG** **ORBIT**
 day hr mn sc deg dg

121 01:05:57	130.62	24350
121 02:50:53	104.26	24351
121 04:35:48	77.91	24352
121 06:20:43	51.55	24353
121 08:05:39	25.19	24354
121 09:50:34	-1.16	24355
121 11:35:30	-27.52	24356
121 13:20:25	-53.88	24357
121 15:05:20	-80.23	24358
121 16:50:16	-106.59	24359
121 18:35:11	-132.95	24360
121 20:20:07	-159.30	24361
121 22:05:02	174.34	24362
121 23:49:57	147.98	24363

122 01:27:34	.20	34147
122 03:12:55	-26.26	34148
122 04:58:16	-52.72	34149
122 06:43:37	-79.18	34150
122 08:28:57	-105.65	34151
122 10:14:18	-132.11	34152
122 11:59:39	-158.57	34153
122 13:45:00	174.97	34154
122 15:30:21	148.51	34155
122 17:15:42	122.04	34156
122 19:01:02	95.58	34157
122 20:46:23	69.12	34158
122 22:31:44	42.66	34159

122 00:59:03	81.29	30622
122 02:43:55	54.95	30623
122 04:28:48	28.61	30624
122 06:13:40	2.26	30625
122 07:58:32	-24.08	30626
122 09:43:24	-50.43	30627
122 11:28:17	-76.77	30628
122 13:13:09	-103.11	30629
122 14:58:01	-129.45	30630
122 16:42:53	-155.80	30631
122 18:27:46	177.86	30632
122 20:12:38	151.52	30633
122 21:57:30	125.17	30634
122 23:42:22	98.83	30635

122 01:34:53	121.63	24364
122 03:19:48	95.27	24365
122 05:04:44	68.92	24366
122 06:49:39	42.56	24367
122 08:34:34	16.20	24368
122 10:19:30	-10.15	24369
122 12:04:25	-36.51	24370
122 13:49:21	-62.86	24371
122 15:34:16	-89.22	24372
122 17:19:11	-115.58	24373
122 19:04:07	-141.93	24374
122 20:49:02	-168.29	24375
122 22:33:58	165.35	24376

123 00:17:05	16.19	34160
123 02:02:26	-10.27	34161
123 03:47:46	-36.73	34162
123 05:33:07	-63.19	34163
123 07:18:28	-89.66	34164
123 09:03:49	-116.12	34165
123 10:49:10	-142.58	34166
123 12:34:30	-169.05	34167
123 14:19:51	164.49	34168
123 16:05:12	138.03	34169
123 17:50:33	111.57	34170
123 19:35:54	85.11	34171
123 21:21:14	58.64	34172
123 23:06:35	32.18	34173

123 01:27:15	72.49	30636
123 03:12:07	46.14	30637
123 04:56:59	19.80	30638
123 06:41:51	-6.54	30639
123 08:26:44	-32.89	30640
123 10:11:36	-59.23	30641
123 11:56:28	-85.57	30642
123 13:41:20	-111.92	30643
123 15:26:13	-138.26	30644
123 17:11:05	-164.60	30645
123 18:55:57	169.05	30646
123 20:40:49	142.71	30647
123 22:25:42	116.37	30648

123 00:18:53	139.00	24377
123 02:03:48	112.64	24378
123 03:48:44	86.28	24379
123 05:33:39	59.93	24380
123 07:18:35	33.57	24381
123 09:03:30	7.21	24382
123 10:48:25	-19.14	24383
123 12:33:21	-45.50	24384
123 14:18:16	-71.86	24385
123 16:03:12	-98.21	24386
123 17:48:07	-124.57	24387
123 19:33:02	-150.93	24388
123 21:17:58	-177.28	24389
123 23:02:53	156.36	24390

124 00:31:56	5.72	34174
124 02:37:17	-20.74	34175
124 04:22:38	-47.21	34176
124 06:07:59	-73.67	34177
124 07:53:19	-100.13	34178
124 09:38:40	-126.59	34179
124 11:24:01	-153.06	34180
124 13:09:22	-179.32	34181
124 14:54:43	154.02	34182
124 16:40:03	127.56	34183
124 18:25:24	101.09	34184
124 20:10:45	74.63	34185
124 21:56:06	48.17	34186
124 23:41:27	21.71	34187

124 00:10:34	90.02	30649
124 01:55:26	63.68	30650
124 03:40:19	37.34	30651
124 05:25:11	10.99	30652
124 07:10:03	-15.35	30653
124 08:54:55	-41.69	30654
124 10:39:48	-68.04	30655
124 12:24:40	-94.38	30656
124 14:09:32	-120.72	30657
124 15:54:24	-147.07	30658
124 17:39:17	-173.41	30659
124 19:24:09	160.25	30660
124 21:09:01	133.90	30661
124 22:53:53	107.56	30662

124 00:47:49	130.01	24391
124 02:32:44	103.65	24392
124 04:17:39	77.29	24393
124 06:02:35	50.94	24394
124 07:47:30	24.58	24395
124 09:32:26	-1.77	24396
124 11:17:21	-28.13	24397
124 13:02:16	-54.49	24398
124 14:47:12	-80.84	24399
124 16:32:07	-107.20	24400
124 18:17:03	-133.56	24401
124 20:01:58	-159.91	24402
124 21:46:53	173.73	24403
124 23:31:49	147.37	24404

SATELLITE S2

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

121	00:22:54	-117.67	22581
121	02:04:57	-143.18	22582
121	03:47:00	-168.69	22583
121	05:29:03	165.80	22584
121	07:11:06	140.29	22585
121	08:53:09	114.78	22586
121	10:35:12	89.27	22587
121	12:17:15	63.76	22588
121	13:59:18	38.25	22589
121	15:41:21	12.74	22590
121	17:23:24	-12.77	22591
121	19:05:27	-38.28	22592
121	20:47:30	-63.79	22593
121	22:29:33	-89.30	22594

SATELLITE S3

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

121	01:08:08	-83.58	13598
121	02:49:24	-108.90	13599
121	04:30:40	-134.22	13600
121	06:11:56	-159.53	13601
121	07:53:12	-175.15	13602
121	09:34:28	-149.83	13603
121	11:15:43	124.52	13604
121	12:56:59	99.21	13605
121	14:38:15	73.89	13606
121	16:19:31	48.57	13607
121	18:00:47	23.25	13608
121	19:42:03	-2.07	13609
121	21:23:19	-27.38	13610
121	23:04:35	-52.70	13611

SATELLITE S4

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

121	01:11:59	-171.68	3083
121	02:54:06	162.79	3084
121	04:36:14	137.25	3085
121	06:18:21	111.73	3086
121	08:00:29	86.19	3087
121	09:42:36	60.66	3088
121	11:24:43	35.14	3089
121	13:06:51	9.60	3090
121	14:48:58	-15.92	3091
121	16:31:06	-41.46	3092
121	18:13:13	-66.99	3093
121	19:55:20	-92.51	3094
121	21:37:28	-118.05	3095
121	23:19:35	-143.57	3096

122	00:11:36	-114.81	22595
122	01:53:39	-140.32	22596
122	03:35:42	-165.83	22597
122	05:17:45	168.66	22598
122	06:59:48	143.15	22599
122	08:41:51	117.64	22600
122	10:23:54	92.12	22601
122	12:05:57	66.61	22602
122	13:47:59	41.12	22603
122	15:30:02	15.61	22604
122	17:12:05	-9.90	22605
122	18:54:08	-35.41	22606
122	20:36:11	-60.92	22607
122	22:18:14	-86.44	22608

122	00:45:50	-78.01	13612
122	02:27:06	-103.33	13613
122	04:08:22	-128.64	13614
122	05:49:38	-153.96	13615
122	07:30:54	-179.28	13616
122	09:12:10	155.40	13617
122	10:53:26	130.08	13618
122	12:34:41	104.78	13619
122	14:15:57	79.46	13620
122	15:57:13	54.14	13621
122	17:38:29	28.82	13622
122	19:19:45	3.51	13623
122	21:01:01	-21.81	13624
122	22:42:17	-47.13	13625

122	01:01:43	-169.11	3097
122	02:43:50	165.36	3098
122	04:25:57	139.84	3099
122	06:08:05	114.30	3100
122	07:50:12	88.77	3101
122	09:32:20	63.24	3102
122	11:14:27	37.71	3103
122	12:56:35	12.17	3104
122	14:38:42	-13.35	3105
122	16:20:49	-38.88	3106
122	18:02:57	-64.41	3107
122	19:45:04	-89.94	3108
122	21:27:12	-115.48	3109
122	23:09:19	-141.00	3110

123	00:00:17	-111.95	22609
123	01:42:20	-137.46	22610
123	03:24:23	-162.97	22611
123	05:06:26	171.52	22612
123	06:48:29	146.01	22613
123	08:30:32	120.50	22614
123	10:12:35	94.99	22615
123	11:54:38	69.48	22616
123	13:36:41	43.97	22617
123	15:18:44	18.46	22618
123	17:00:47	-7.05	22619
123	18:42:50	-32.56	22620
123	20:24:53	-58.07	22621
123	22:06:56	-83.58	22622
123	23:48:59	-109.09	22623

123	00:23:33	-72.45	13626
123	02:04:48	-97.75	13627
123	03:46:04	-123.07	13628
123	05:27:20	-148.39	13629
123	07:08:36	-173.71	13630
123	08:49:52	160.97	13631
123	10:31:08	135.66	13632
123	12:12:24	110.34	13633
123	13:53:40	85.02	13634
123	15:34:55	59.71	13635
123	17:16:11	34.40	13636
123	18:57:27	9.08	13637
123	20:38:43	-16.24	13638
123	22:19:59	-41.56	13639

123	00:31:26	-166.33	3111
123	02:33:34	167.93	3112
123	04:15:41	142.41	3113
123	05:57:49	116.87	3114
123	07:39:56	91.35	3115
123	09:22:03	65.82	3116
123	11:04:11	40.28	3117
123	12:46:18	14.76	3118
123	14:28:26	-10.78	3119
123	16:10:33	-36.30	3120
123	17:52:40	-61.83	3121
123	19:34:48	-87.37	3122
123	21:16:55	-112.89	3123
123	22:59:03	-138.43	3124

124	01:31:02	-134.60	22624
124	03:13:05	-160.11	22625
124	04:55:08	174.38	22626
124	06:37:11	148.87	22627
124	08:19:14	123.36	22628
124	10:01:17	97.94	22629
124	11:43:20	72.33	22630
124	13:25:23	46.82	22631
124	15:07:26	21.31	22632
124	16:49:29	-4.20	22633
124	18:31:32	-29.71	22634
124	20:13:35	-55.22	22635
124	21:55:38	-80.73	22636
124	23:37:41	-106.24	22637

124	00:01:15	-66.88	13640
124	01:42:31	-92.19	13641
124	03:23:47	-117.51	13642
124	05:05:02	-142.82	13643
124	06:46:18	-168.14	13644
124	08:27:34	166.55	13645
124	10:08:50	141.23	13646
124	11:50:06	115.91	13647
124	13:31:22	90.59	13648
124	15:12:38	65.27	13649
124	16:53:54	39.96	13650
124	18:35:09	14.65	13651
124	20:16:25	-10.67	13652
124	21:57:41	-35.99	13653
124	23:38:57	-61.30	13654

124	00:41:10	-163.96	3125
124	02:23:17	170.52	3126
124	04:05:25	144.98	3127
124	05:47:32	119.46	3128
124	07:29:40	93.92	3129
124	09:11:47	68.39	3130
124	10:53:54	42.87	3131
124	12:36:02	17.33	3132
124	14:18:09	-8.19	3133
124	16:00:17	-33.73	3134
124	17:42:24	-59.26	3135
124	19:24:32	-84.80	3136
124	21:06:39	-110.32	3137
124	22:48:46	-135.85	3138

SATELLITE C1
Ascending Node Predictions

Predicting for 183 days

 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

125 01:26:47	-4.76	34188
125 03:12:08	-31.22	34189
125 04:57:29	-57.68	34190
125 06:42:50	-84.14	34191
125 08:28:11	-110.60	34192
125 10:13:31	-137.07	34193
125 11:58:52	-163.53	34194
125 13:44:13	170.01	34195
125 15:29:34	143.55	34196
125 17:14:55	117.08	34197
125 19:00:16	90.62	34198
125 20:45:36	64.16	34199
125 22:30:57	37.70	34200

SATELLITE C2
Ascending Node Predictions

Predicting for 183 days

 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

125 00:38:46	81.22	30663
125 02:23:38	54.87	30664
125 04:08:30	28.53	30665
125 05:53:22	2.19	30666
125 07:38:15	-24.16	30667
125 09:23:07	-50.58	30668
125 11:07:59	-76.84	30669
125 12:52:51	-103.19	30670
125 14:37:44	-129.53	30671
125 16:22:36	-155.87	30672
125 18:07:28	177.78	30673
125 19:52:20	151.44	30674
125 21:37:13	125.10	30675
125 23:22:05	98.75	30676

SATELLITE C3
Ascending Node Predictions

Predicting for 183 days

 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

125 01:16:44	121.02	24403
125 03:01:40	94.66	24406
125 04:46:35	68.30	24407
125 06:31:30	41.95	24408
125 08:16:26	15.59	24409
125 10:01:21	-10.77	24410
125 11:46:17	-37.12	24411
125 13:31:12	-63.48	24412
125 15:16:07	-89.84	24413
125 17:01:03	-116.19	24414
125 18:45:58	-142.55	24415
125 20:30:54	-168.90	24416
125 22:15:49	164.74	24417

126 00:16:18	11.23	34201
126 02:01:39	-15.23	34202
126 03:47:00	-41.69	34203
126 05:32:20	-68.16	34204
126 07:17:41	-94.62	34205
126 09:03:02	-121.08	34206
126 10:48:23	-147.54	34207
126 12:33:44	-174.00	34208
126 14:19:04	159.53	34209
126 16:04:25	133.07	34210
126 17:49:46	106.61	34211
126 19:35:07	80.15	34212
126 21:20:28	53.68	34213
126 23:05:48	27.22	34214

126 01:06:57	72.41	30677
126 02:51:49	46.07	30678
126 04:36:42	19.72	30679
126 06:21:34	-6.62	30680
126 08:06:26	-32.96	30681
126 09:51:18	-59.31	30682
126 11:36:11	-85.65	30683
126 13:21:03	-111.99	30684
126 15:05:55	-138.34	30685
126 16:50:48	-164.68	30686
126 18:35:40	168.98	30687
126 20:20:32	142.63	30688
126 22:05:24	116.29	30689
126 23:50:17	89.95	30690

126 00:00:44	138.38	24418
126 01:45:40	112.03	24419
126 03:30:35	85.67	24420
126 05:15:31	59.32	24421
126 07:00:26	32.96	24422
126 08:45:21	6.60	24423
126 10:30:17	-19.75	24424
126 12:15:12	-46.11	24425
126 14:00:08	-72.47	24426
126 15:45:03	-98.82	24427
126 17:29:58	-125.18	24428
126 19:14:54	-151.54	24429
126 20:59:49	-177.89	24430
126 22:44:45	155.75	24431

127 00:31:09	.76	34215
127 02:36:30	-25.70	34216
127 04:21:51	-52.17	34217
127 06:07:12	-78.63	34218
127 07:52:33	-105.09	34219
127 09:37:53	-131.55	34220
127 11:23:14	-158.02	34221
127 13:08:35	175.52	34222
127 14:53:56	149.06	34223
127 16:39:17	122.60	34224
127 18:24:37	96.13	34225
127 20:09:58	69.67	34226
127 21:55:19	43.21	34227
127 23:40:40	16.75	34228

127 01:35:09	63.60	30691
127 03:20:01	37.26	30692
127 05:04:53	10.92	30693
127 06:49:46	-15.42	30694
127 08:34:38	-41.77	30695
127 10:19:30	-68.11	30696
127 12:04:22	-94.46	30697
127 13:49:15	-120.80	30698
127 15:34:07	-147.14	30699
127 17:18:59	-173.49	30700
127 19:03:51	160.17	30701
127 20:48:44	133.83	30702
127 22:33:36	107.48	30703

127 00:29:40	129.39	24432
127 02:14:35	103.04	24433
127 03:39:31	76.68	24434
127 05:44:26	50.32	24435
127 07:29:22	23.97	24436
127 09:14:17	-2.39	24437
127 10:59:12	-28.74	24438
127 12:44:08	-55.10	24439
127 14:29:03	-81.46	24440
127 16:13:59	-107.81	24441
127 17:58:54	-134.17	24442
127 19:43:49	-160.53	24443
127 21:28:45	173.12	24444
127 23:13:40	146.76	24445

128 01:26:01	-9.71	34229
128 03:11:21	-36.18	34230
128 04:56:42	-62.64	34231
128 06:42:03	-89.10	34232
128 08:27:24	-115.56	34233
128 10:12:45	-142.03	34234
128 11:58:06	-168.49	34235
128 13:43:26	165.05	34236
128 15:28:47	138.58	34237
128 17:14:08	112.12	34238
128 18:59:29	85.66	34239
128 20:44:50	59.20	34240
128 22:30:10	32.73	34241

128 00:18:28	81.14	30704
128 02:03:20	54.80	30705
128 03:48:13	28.46	30706
128 05:33:05	2.11	30707
128 07:17:57	-24.23	30708
128 09:02:49	-50.58	30709
128 10:47:42	-76.92	30710
128 12:32:34	-103.26	30711
128 14:17:26	-129.61	30712
128 16:02:18	-155.95	30713
128 17:47:11	177.71	30714
128 19:32:03	151.36	30715
128 21:16:55	125.02	30716
128 23:01:47	98.68	30717

128 00:38:36	120.41	24446
128 02:43:31	94.05	24447
128 04:28:26	67.69	24448
128 06:13:22	41.34	24449
128 07:58:17	14.98	24450
128 09:43:13	-11.38	24451
128 11:28:08	-37.73	24452
128 13:13:03	-64.09	24453
128 14:57:59	-90.45	24454
128 16:42:54	-116.80	24455
128 18:27:50	-143.16	24456
128 20:12:45	-169.51	24457
128 21:57:40	164.13	24458
128 23:42:36	137.77	24459

SATELLITE S2

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

125	01:19:44	-131.75	22638
125	03:01:47	-157.26	22639
125	04:43:49	177.24	22640
125	06:25:52	151.73	22641
125	08:07:55	126.22	22642
125	09:49:58	100.71	22643
125	11:32:01	75.20	22644
125	13:14:04	49.69	22645
125	14:56:07	24.18	22646
125	16:38:10	-1.33	22647
125	18:20:13	-26.84	22648
125	20:02:16	-52.35	22649
125	21:44:19	-77.86	22650
125	23:26:22	-103.37	22651

SATELLITE S3

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

125	01:20:13	-86.62	13655
125	03:01:29	-111.94	13656
125	04:42:45	-137.26	13657
125	06:24:01	-162.58	13658
125	08:05:16	172.12	13659
125	09:46:32	146.80	13660
125	11:27:48	121.48	13661
125	13:09:04	96.17	13662
125	14:50:20	70.85	13663
125	16:31:36	45.53	13664
125	18:12:52	20.21	13665
125	19:54:08	-5.11	13666
125	21:35:23	-30.41	13667
125	23:16:39	-55.73	13668

SATELLITE S4

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

125	00:30:54	-161.38	3139
125	02:13:01	173.09	3140
125	03:55:09	147.55	3141
125	05:37:16	122.03	3142
125	07:19:23	96.56	3143
125	09:01:31	70.97	3144
125	10:43:38	45.44	3145
125	12:25:46	19.90	3146
125	14:07:53	-5.62	3147
125	15:50:00	-31.15	3148
125	17:32:08	-56.69	3149
125	19:14:15	-82.21	3150
125	20:56:23	-107.75	3151
125	22:38:30	-133.27	3152

126	01:08:25	-128.88	22652
126	02:50:28	-154.39	22653
126	04:32:31	-179.90	22654
126	06:14:34	154.59	22655
126	07:56:37	129.08	22656
126	09:38:40	103.56	22657
126	11:20:43	78.05	22658
126	13:02:46	52.54	22659
126	14:44:49	27.03	22660
126	16:26:52	1.52	22661
126	18:08:55	-23.99	22662
126	19:50:58	-49.50	22663
126	21:33:01	-75.01	22664
126	23:15:04	-100.52	22665

126	00:57:55	-81.03	13669
126	02:39:11	-106.37	13670
126	04:20:27	-131.68	13671
126	06:01:43	-157.00	13672
126	07:42:59	177.68	13673
126	09:24:15	152.36	13674
126	11:05:30	127.06	13675
126	12:46:46	101.74	13676
126	14:28:02	76.42	13677
126	16:09:18	51.10	13678
126	17:50:34	25.78	13679
126	19:31:50	.47	13680
126	21:13:06	-24.85	13681
126	22:54:21	-50.16	13682

126	00:20:37	-158.80	3153
126	02:02:45	175.66	3154
126	03:44:52	150.14	3155
126	05:27:00	124.60	3156
126	07:09:07	99.08	3157
126	08:51:14	73.55	3158
126	10:33:22	48.01	3159
126	12:15:29	22.49	3160
126	13:57:37	-3.05	3161
126	15:39:44	-28.58	3162
126	17:21:51	-54.10	3163
126	19:03:59	-79.64	3164
126	20:46:06	-105.16	3165
126	22:28:14	-130.70	3166

127	00:57:07	-126.03	22666
127	02:39:10	-151.54	22667
127	04:21:13	-177.05	22668
127	06:03:16	157.44	22669
127	07:45:19	131.93	22670
127	09:27:22	106.42	22671
127	11:09:25	80.91	22672
127	12:51:28	55.40	22673
127	14:33:31	29.89	22674
127	16:15:33	4.39	22675
127	17:57:36	-21.12	22676
127	19:39:39	-46.63	22677
127	21:21:42	-72.14	22678
127	23:03:45	-97.65	22679

127	00:35:37	-75.48	13683
127	02:16:53	-100.79	13684
127	03:58:09	-126.11	13685
127	05:39:25	-151.43	13686
127	07:20:41	-176.75	13687
127	09:01:57	157.93	13688
127	10:43:13	132.62	13689
127	12:24:28	107.31	13690
127	14:05:44	81.99	13691
127	15:47:00	56.67	13692
127	17:28:16	31.36	13693
127	19:09:32	6.04	13694
127	20:50:48	-19.28	13695
127	22:32:04	-44.60	13696

127	00:10:21	-136.23	3167
127	01:52:29	178.23	3168
127	03:34:36	152.71	3169
127	05:16:43	127.19	3170
127	06:58:51	101.65	3171
127	08:40:58	76.12	3172
127	10:23:06	50.58	3173
127	12:05:13	25.06	3174
127	13:47:20	-.47	3175
127	15:29:28	-26.00	3176
127	17:11:35	-51.53	3177
127	18:53:43	-77.07	3178
127	20:35:50	-102.59	3179
127	22:17:57	-128.12	3180

128	00:45:48	-123.16	22680
128	02:27:51	-148.67	22681
128	04:09:54	-174.18	22682
128	05:51:57	160.31	22683
128	07:34:00	134.79	22684
128	09:16:03	109.28	22685
128	10:58:06	83.77	22686
128	12:40:09	58.26	22687
128	14:22:12	32.75	22688
128	16:04:15	7.24	22689
128	17:46:18	-18.27	22690
128	19:28:21	-43.78	22691
128	21:10:24	-69.29	22692
128	22:52:27	-94.80	22693

128	00:13:20	-69.92	13697
128	01:54:35	-95.22	13698
128	03:35:51	-120.54	13699
128	05:17:07	-145.86	13700
128	06:58:23	-171.18	13701
128	08:39:39	163.51	13702
128	10:20:55	138.19	13703
128	12:02:11	112.87	13704
128	13:43:27	87.55	13705
128	15:24:42	62.25	13706
128	17:05:58	36.93	13707
128	18:47:14	11.61	13708
128	20:28:30	-13.71	13709
128	22:09:46	-39.03	13710
128	23:51:02	-64.34	13711

128	00:00:05	-153.66	3181
128	01:42:12	-179.18	3182
128	03:24:20	155.28	3183
128	05:06:27	129.76	3184
128	06:48:34	104.23	3185
128	08:30:42	78.69	3186
128	10:12:49	53.17	3187
128	11:54:57	27.63	3188
128	13:37:04	2.11	3189
128	15:19:11	-23.42	3190
128	17:01:19	-48.96	3191
128	18:43:26	-74.48	3192
128	20:25:34	-100.02	3193
128	22:07:41	-125.55	3194
128	23:49:48	-151.07	3195

SATELLITE C1				SATELLITE C2				SATELLITE C3			
Ascending Node Predictions				Ascending Node Predictions				Ascending Node Predictions			
Predicting for 183 days				Predicting for 183 days				Predicting for 183 days			
TIME (GMT)	E LONG	ORBIT		TIME (GMT)	E LONG	ORBIT		TIME (GMT)	E LONG	ORBIT	
day hr mn sc	deg dg			day hr mn sc	deg dg			day hr mn sc	deg dg		
129 00:15:31	6.27	34242		129 00:46:40	72.34	30718		129 01:27:31	111.42	24460	
129 02:00:52	-20.19	34243		129 02:31:32	45.99	30719		129 03:12:27	85.06	24461	
129 03:46:13	-46.65	34244		129 04:16:24	19.65	30720		129 04:57:22	58.70	24462	
129 05:31:34	-73.11	34245		129 06:01:17	-6.69	30721		129 06:42:17	32.35	24463	
129 07:16:54	-99.58	34246		129 07:46:09	-33.04	30722		129 08:27:13	5.99	24464	
129 09:02:15	-126.04	34247		129 09:31:01	-59.38	30723		129 10:12:08	-20.37	24465	
129 10:47:36	-152.50	34248		129 11:15:53	-85.73	30724		129 11:57:04	-46.72	24466	
129 12:32:57	-178.96	34249		129 13:00:46	-112.07	30725		129 13:41:59	-73.08	24467	
129 14:18:18	154.57	34250		129 14:45:38	-138.41	30726		129 15:26:54	-99.44	24468	
129 16:03:39	128.11	34251		129 16:30:30	-164.76	30727		129 17:11:50	-125.79	24469	
129 17:48:59	101.65	34252		129 18:15:22	168.90	30728		129 18:56:45	-152.15	24470	
129 19:34:20	75.19	34253		129 20:00:15	142.56	30729		129 20:41:41	-178.50	24471	
129 21:19:41	48.72	34254		129 21:45:07	116.22	30730		129 22:26:36	155.14	24472	
129 23:05:02	22.26	34255		129 23:29:59	89.87	30731					
130 00:50:23	-4.20	34256		130 01:14:51	63.53	30732		130 00:11:31	128.78	24473	
130 02:35:43	-30.66	34257		130 02:59:44	37.19	30733		130 01:56:27	102.43	24474	
130 04:21:04	-57.13	34258		130 04:44:36	10.84	30734		130 03:41:22	76.07	24475	
130 06:06:25	-83.59	34259		130 06:29:28	-15.50	30735		130 05:26:18	49.72	24476	
130 07:51:46	-110.05	34260		130 08:14:20	-41.85	30736		130 07:11:13	23.36	24477	
130 09:37:07	-136.51	34261		130 09:59:13	-68.19	30737		130 08:56:08	-3.00	24478	
130 11:22:27	-162.98	34262		130 11:44:05	-94.53	30738		130 10:41:04	-29.35	24479	
130 13:07:48	170.56	34263		130 13:28:57	-120.88	30739		130 12:23:59	-55.71	24480	
130 14:53:09	144.10	34264		130 15:13:49	-147.22	30740		130 14:10:55	-82.07	24481	
130 16:38:30	117.64	34265		130 16:58:42	-173.56	30741		130 15:55:50	-108.42	24482	
130 18:23:51	91.17	34266		130 18:43:34	160.10	30742		130 17:40:45	-134.78	24483	
130 20:09:12	64.71	34267		130 20:28:26	133.75	30743		130 19:25:41	-161.14	24484	
130 21:54:32	38.23	34268		130 22:13:18	107.41	30744		130 21:10:36	172.51	24485	
130 23:39:53	11.79	34269		130 23:58:11	81.07	30745		130 22:55:32	146.15	24486	
131 01:25:14	-14.68	34270		131 01:43:03	54.72	30746		131 00:40:27	119.79	24487	
131 03:10:35	-41.14	34271		131 03:27:55	28.38	30747		131 02:25:22	93.44	24488	
131 04:55:56	-67.60	34272		131 05:12:48	2.04	30748		131 04:10:18	67.08	24489	
131 06:41:16	-94.06	34273		131 06:57:40	-24.31	30749		131 05:55:13	40.72	24490	
131 08:26:37	-120.53	34274		131 08:42:32	-50.65	30750		131 07:40:09	14.37	24491	
131 10:11:58	-146.99	34275		131 10:27:24	-77.00	30751		131 09:25:04	-11.99	24492	
131 11:57:19	-173.45	34276		131 12:12:17	-103.34	30752		131 11:10:00	-38.34	24493	
131 13:42:40	160.09	34277		131 13:57:09	-129.68	30753		131 12:54:55	-64.70	24494	
131 15:28:00	133.62	34278		131 15:42:01	-156.02	30754		131 14:39:50	-91.06	24495	
131 17:13:21	107.16	34279		131 17:26:53	177.63	30755		131 16:24:46	-117.41	24496	
131 18:58:42	80.70	34280		131 19:11:46	151.29	30756		131 18:09:41	-143.77	24497	
131 20:44:03	54.24	34281		131 20:56:38	124.95	30757		131 19:54:37	-170.12	24498	
131 22:29:24	27.78	34282		131 22:41:30	98.60	30758		131 21:39:32	163.52	24499	
								131 23:24:27	137.16	24500	
132 00:14:45	1.31	34283		132 00:26:22	72.26	30759					
132 02:00:05	-25.15	34284		132 02:11:15	45.92	30760					
132 03:45:26	-51.61	34285		132 03:56:07	19.57	30761					
132 05:30:47	-78.07	34286		132 05:40:59	-6.77	30762					
132 07:16:08	-104.54	34287		132 07:25:51	-33.12	30763					
132 09:01:29	-131.00	34288		132 09:10:44	-59.46	30764					
132 10:46:49	-157.46	34289		132 10:55:36	-85.00	30765					
132 12:32:10	176.07	34290		132 12:40:28	-112.15	30766					
132 14:17:31	149.61	34291		132 14:25:20	-138.49	30767					
132 16:02:52	123.15	34292		132 16:10:13	-164.83	30768					
132 17:48:13	96.69	34293		132 17:55:05	168.83	30769					
132 19:33:33	70.22	34294		132 19:39:57	142.48	30770					
132 21:18:54	43.76	34295		132 21:24:49	116.14	30771					
132 23:04:15	17.30	34296		132 23:09:42	89.80	30772					

West longitude is negative (-)

SATELLITE S2

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

129 00:34:30	-120.31	22694
129 02:16:33	-145.82	22693
129 03:58:36	-171.33	22696
129 05:40:39	163.16	22697
129 07:22:42	137.63	22698
129 09:04:45	112.14	22699
129 10:46:48	86.63	22700
129 12:28:51	61.12	22701
129 14:10:54	35.61	22702
129 15:52:57	10.10	22703
129 17:35:00	-15.42	22704
129 19:17:03	-40.93	22705
129 20:59:06	-66.44	22706
129 22:41:09	-91.95	22707

SATELLITE S3

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

129 01:32:18	-89.66	13712
129 03:13:34	-114.98	13713
129 04:54:49	-140.29	13714
129 06:36:05	-165.60	13715
129 08:17:21	169.08	13716
129 09:58:37	143.76	13717
129 11:39:53	118.44	13718
129 13:21:09	93.12	13719
129 15:02:25	67.81	13720
129 16:43:41	42.49	13721
129 18:24:56	17.18	13722
129 20:06:12	-8.14	13723
129 21:47:28	-33.45	13724
129 23:28:44	-58.77	13725

SATELLITE S4

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

129 01:31:56	-176.61	3196
129 03:14:03	157.87	3197
129 04:56:11	132.33	3198
129 06:38:18	106.80	3199
129 08:20:26	81.27	3200
129 10:02:33	55.74	3201
129 11:44:40	30.22	3202
129 13:26:48	4.68	3203
129 15:08:55	-20.85	3204
129 16:51:03	-46.39	3205
129 18:33:10	-71.91	3206
129 20:15:17	-97.44	3207
129 21:57:25	-122.97	3208
129 23:39:32	-148.50	3209

130 00:23:12	-117.46	22708
130 02:05:14	-142.95	22709
130 03:47:17	-168.46	22710
130 05:29:20	166.02	22711
130 07:11:23	140.51	22712
130 08:53:26	115.00	22713
130 10:35:29	89.49	22714
130 12:17:32	63.98	22715
130 13:59:35	38.47	22716
130 15:41:38	12.96	22717
130 17:23:41	-12.55	22718
130 19:05:44	-38.06	22719
130 20:47:47	-63.57	22720
130 22:29:50	-89.08	22721

130 01:10:00	-84.09	13726
130 02:51:16	-109.41	13727
130 04:32:32	-134.73	13728
130 06:13:48	-160.04	13729
130 07:55:03	174.65	13730
130 09:36:19	149.33	13731
130 11:17:35	124.01	13732
130 12:58:51	98.70	13733
130 14:40:07	73.38	13734
130 16:21:23	48.06	13735
130 18:02:39	22.79	13736
130 19:43:54	-2.36	13737
130 21:25:10	-27.08	13738
130 23:06:26	-53.20	13739

130 01:21:40	-174.04	3210
130 03:03:47	160.44	3211
130 04:45:54	134.91	3212
130 06:28:02	109.38	3213
130 08:10:09	83.85	3214
130 09:52:17	58.31	3215
130 11:34:24	32.79	3216
130 13:16:31	7.26	3217
130 14:58:39	-18.28	3218
130 16:40:46	-43.86	3219
130 18:22:54	-69.34	3220
130 20:03:01	-94.86	3221
130 21:47:08	-120.39	3222
130 23:29:16	-145.93	3223

131 00:11:53	-114.59	22722
131 01:53:56	-140.10	22723
131 03:35:59	-165.61	22724
131 05:18:02	168.88	22725
131 07:00:05	143.37	22726
131 08:42:08	117.86	22727
131 10:24:11	92.35	22728
131 12:06:14	66.84	22729
131 13:48:17	41.33	22730
131 15:30:20	15.81	22731
131 17:12:23	-9.70	22732
131 18:54:26	-35.21	22733
131 20:36:29	-60.72	22734
131 22:18:32	-86.23	22735

131 00:47:42	-78.32	13740
131 02:29:58	-103.84	13741
131 04:10:14	-129.15	13742
131 05:51:30	-154.47	13743
131 07:32:46	-179.79	13744
131 09:14:01	154.91	13745
131 10:55:17	129.59	13746
131 12:36:33	104.27	13747
131 14:17:49	78.95	13748
131 15:59:05	53.63	13749
131 17:40:21	28.31	13750
131 19:21:37	3.00	13751
131 21:02:53	-22.32	13752
131 22:44:08	-47.63	13753

131 01:11:23	-171.45	3224
131 02:53:31	163.01	3225
131 04:35:38	137.49	3226
131 06:17:46	111.95	3227
131 07:59:53	86.42	3228
131 09:42:00	60.90	3229
131 11:24:08	35.36	3230
131 13:06:15	9.83	3231
131 14:48:23	-15.70	3232
131 16:30:30	-41.23	3233
131 18:12:37	-66.75	3234
131 19:54:45	-92.29	3235
131 21:36:52	-117.82	3236
131 23:19:00	-143.35	3237

132 00:00:35	-111.74	22736
132 01:42:38	-137.25	22737
132 03:24:41	-162.76	22738
132 05:06:44	171.73	22739
132 06:48:47	146.22	22740
132 08:30:50	120.71	22741
132 10:12:52	95.21	22742
132 11:54:55	69.70	22743
132 13:36:58	44.19	22744
132 15:19:01	18.68	22745
132 17:01:04	-6.83	22746
132 18:43:07	-32.34	22747
132 20:25:10	-57.85	22748
132 22:07:13	-83.36	22749
132 23:49:16	-108.87	22750

132 00:25:24	-72.94	13754
132 02:06:40	-98.26	13755
132 03:47:56	-123.58	13756
132 05:29:12	-148.90	13757
132 07:10:28	-174.22	13758
132 08:51:44	160.46	13759
132 10:33:00	135.15	13760
132 12:14:15	109.84	13761
132 13:55:31	84.52	13762
132 15:36:47	59.21	13763
132 17:18:03	33.89	13764
132 18:59:19	8.57	13765
132 20:40:35	-16.75	13766
132 22:21:51	-42.07	13767

132 01:01:07	-168.88	3238
132 02:43:14	165.60	3239
132 04:25:22	140.06	3240
132 06:07:29	114.53	3241
132 07:49:37	88.99	3242
132 09:31:44	63.47	3243
132 11:13:51	37.94	3244
132 12:55:59	12.41	3245
132 14:38:06	-13.12	3246
132 16:20:14	-38.66	3247
132 18:02:21	-64.18	3248
132 19:44:28	-89.71	3249
132 21:26:36	-115.24	3250
132 23:08:43	-140.77	3251

SATELLITE C1

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

133 00:49:36	-9.16	34297
133 02:34:57	-35.62	34298
133 04:20:17	-62.09	34299
133 06:05:38	-88.55	34300
133 07:50:59	-115.01	34301
133 09:36:20	-141.47	34302
133 11:21:41	-167.94	34303
133 13:07:02	163.60	34304
133 14:52:22	139.14	34305
133 16:37:43	112.68	34306
133 18:23:04	86.21	34307
133 20:08:25	59.75	34308
133 21:53:46	33.29	34309
133 23:39:06	6.83	34310

SATELLITE C2

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

133 00:34:34	63.45	30773
133 02:39:26	37.11	30774
133 04:24:18	10.76	30775
133 06:09:11	-15.38	30776
133 07:54:03	-41.92	30777
133 09:38:55	-68.27	30778
133 11:23:48	-94.61	30779
133 13:08:40	-120.95	30780
133 14:53:32	-147.29	30781
133 16:38:24	-173.64	30782
133 18:23:17	160.02	30783
133 20:08:09	133.68	30784
133 21:53:01	107.33	30785
133 23:37:53	80.99	30786

SATELLITE C3

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

133 01:38:18	101.81	24515
133 03:23:14	75.46	24516
133 05:08:09	49.10	24517
133 06:53:05	22.75	24518
133 08:38:00	-3.61	24519
133 10:22:55	-29.97	24520
133 12:07:51	-56.32	24521
133 13:52:46	-82.68	24522
133 15:37:42	-109.03	24523
133 17:22:37	-135.39	24524
133 19:07:32	-161.75	24525
133 20:52:28	171.90	24526
133 22:37:23	145.54	24527

134 01:24:27	-19.64	34311
134 03:09:48	-46.10	34312
134 04:55:09	-72.56	34313
134 06:40:30	-99.02	34314
134 08:25:50	-125.49	34315
134 10:11:11	-151.95	34316
134 11:56:32	-178.41	34317
134 13:41:53	155.13	34318
134 15:27:14	128.67	34319
134 17:12:35	102.20	34320
134 18:57:55	75.74	34321
134 20:43:16	49.28	34322
134 22:28:37	22.81	34323

134 01:22:46	54.65	30787
134 03:07:38	28.30	30788
134 04:52:30	1.96	30789
134 06:37:22	-24.39	30790
134 08:22:15	-50.73	30791
134 10:07:07	-77.07	30792
134 11:51:59	-103.41	30793
134 13:36:51	-129.76	30794
134 15:21:44	-156.10	30795
134 17:06:36	177.56	30796
134 18:51:28	151.21	30797
134 20:36:20	124.87	30798
134 22:21:13	98.53	30799

134 00:22:19	119.18	24528
134 02:07:14	92.83	24529
134 03:52:09	66.47	24530
134 05:37:05	40.11	24531
134 07:22:00	13.76	24532
134 09:06:56	-12.60	24533
134 10:51:51	-38.96	24534
134 12:36:46	-65.31	24535
134 14:21:42	-91.67	24536
134 16:06:37	-118.03	24537
134 17:51:33	-144.38	24538
134 19:36:28	-170.74	24539
134 21:21:23	162.91	24540
134 23:06:19	136.55	24541

135 00:13:58	-3.63	34324
135 01:59:19	-30.11	34325
135 03:44:39	-56.57	34326
135 05:30:00	-83.04	34327
135 07:15:21	-109.50	34328
135 09:00:42	-135.96	34329
135 10:46:03	-162.42	34330
135 12:31:23	171.11	34331
135 14:16:44	144.65	34332
135 16:02:05	118.19	34333
135 17:47:26	91.73	34334
135 19:32:47	65.27	34335
135 21:18:08	38.80	34336
135 23:03:28	12.34	34337

135 00:06:05	72.18	30800
135 01:50:57	45.84	30801
135 03:35:49	19.49	30802
135 05:20:42	-6.85	30803
135 07:05:34	-33.19	30804
135 08:50:26	-59.53	30805
135 10:35:18	-85.88	30806
135 12:20:11	-112.22	30807
135 14:05:03	-138.56	30808
135 15:49:55	-164.91	30809
135 17:34:48	168.75	30810
135 19:19:40	142.41	30811
135 21:04:32	116.06	30812
135 22:49:24	89.72	30813

135 00:51:14	110.19	24542
135 02:36:10	83.84	24543
135 04:21:05	57.48	24544
135 06:06:00	31.12	24545
135 07:50:56	4.77	24546
135 09:35:51	-21.59	24547
135 11:20:47	-47.94	24548
135 13:05:42	-74.30	24549
135 14:50:37	-100.66	24550
135 16:35:33	-127.01	24551
135 18:20:28	-153.37	24552
135 20:05:24	-179.73	24553
135 21:50:19	153.92	24554
135 23:35:14	127.56	24555

136 00:48:49	-14.12	34338
136 02:34:10	-40.58	34339
136 04:19:31	-67.05	34340
136 06:04:52	-93.51	34341
136 07:50:12	-119.97	34342
136 09:35:33	-146.44	34343
136 11:20:54	-172.90	34344
136 13:06:15	160.64	34345
136 14:51:36	134.18	34346
136 16:36:56	107.71	34347
136 18:22:17	81.25	34348
136 20:07:38	54.79	34349
136 21:52:59	28.33	34350
136 23:38:20	1.87	34351

136 00:34:17	63.38	30814
136 02:19:09	37.03	30815
136 04:04:01	10.69	30816
136 05:48:53	-15.65	30817
136 07:33:46	-42.00	30818
136 09:18:38	-68.34	30819
136 11:03:30	-94.68	30820
136 12:48:22	-121.03	30821
136 14:33:15	-147.37	30822
136 16:18:07	-173.71	30823
136 18:02:59	159.94	30824
136 19:47:51	133.60	30825
136 21:32:44	107.26	30826
136 23:17:36	80.91	30827

136 01:20:10	101.20	24556
136 03:05:05	74.85	24557
136 04:50:01	48.49	24558
136 06:34:56	22.14	24559
136 08:19:51	-4.22	24560
136 10:04:47	-30.38	24561
136 11:49:42	-56.93	24562
136 13:34:38	-83.29	24563
136 15:19:33	-109.65	24564
136 17:04:28	-136.00	24565
136 18:49:24	-162.36	24566
136 20:34:19	171.28	24567
136 22:19:15	144.93	24568

SATELLITE S2
Ascending Node Predictions

Predicting for 183 days

 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

133 01:31:19	-134.38	22751
133 03:13:22	-159.89	22752
133 04:55:25	174.60	22753
133 06:37:28	149.09	22754
133 08:19:31	123.58	22755
133 10:01:34	98.07	22756
133 11:43:37	72.55	22757
133 13:25:40	47.04	22758
133 15:07:43	21.53	22759
133 16:49:46	-3.98	22760
133 18:31:49	-29.49	22761
133 20:13:52	-55.00	22762
133 21:55:55	-80.51	22763
133 23:37:58	-106.02	22764

SATELLITE S3
Ascending Node Predictions

Predicting for 183 days

 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

133 00:03:07	-67.38	13768
133 01:44:22	-92.69	13769
133 03:25:38	-118.01	13770
133 05:06:54	-143.33	13771
133 06:48:10	-168.64	13772
133 08:29:26	166.04	13773
133 10:10:42	140.72	13774
133 11:51:58	115.40	13775
133 13:33:14	90.08	13776
133 15:14:29	64.78	13777
133 16:55:45	39.46	13778
133 18:37:01	14.14	13779
133 20:18:17	-11.18	13780
133 21:59:33	-36.49	13781
133 23:40:49	-61.81	13782

SATELLITE S4
Ascending Node Predictions

Predicting for 183 days

 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

133 00:50:51	-166.31	3252
133 02:32:58	168.17	3253
133 04:15:05	142.64	3254
133 05:57:13	117.10	3255
133 07:39:20	91.58	3256
133 09:21:28	66.04	3257
133 11:03:35	40.52	3258
133 12:45:43	14.98	3259
133 14:27:50	-10.55	3260
133 16:09:57	-36.07	3261
133 17:52:05	-61.61	3262
133 19:34:12	-87.13	3263
133 21:16:20	-112.67	3264
133 22:58:27	-138.20	3265

134 01:20:01	-131.33	22765
134 03:02:04	-157.04	22766
134 04:44:07	177.45	22767
134 06:26:10	151.94	22768
134 08:08:13	126.43	22769
134 09:50:16	100.92	22770
134 11:32:19	75.41	22771
134 13:14:22	49.90	22772
134 14:56:25	24.39	22773
134 16:38:27	-1.11	22774
134 18:20:30	-26.62	22775
134 20:02:33	-52.13	22776
134 21:44:36	-77.64	22777
134 23:26:39	-103.15	22778

134 01:22:05	-87.13	13783
134 03:03:21	-112.45	13784
134 04:44:36	-137.75	13785
134 06:25:52	-163.07	13786
134 08:07:08	171.61	13787
134 09:48:24	146.29	13788
134 11:29:40	120.97	13789
134 13:10:56	95.66	13790
134 14:52:12	70.34	13791
134 16:33:27	45.03	13792
134 18:14:43	19.71	13793
134 19:55:59	-5.60	13794
134 21:37:15	-30.92	13795
134 23:18:31	-56.24	13796

134 00:40:34	-163.72	3266
134 02:22:42	170.74	3267
134 04:04:49	145.21	3268
134 05:46:57	119.68	3269
134 07:29:04	94.15	3270
134 09:11:11	68.63	3271
134 10:53:19	43.09	3272
134 12:35:26	17.56	3273
134 14:17:34	-7.97	3274
134 15:59:41	-33.50	3275
134 17:41:48	-59.02	3276
134 19:23:56	-84.56	3277
134 21:06:03	-110.09	3278
134 22:48:11	-135.63	3279

135 01:08:42	-128.66	22779
135 02:50:45	-154.17	22780
135 04:32:48	-179.68	22781
135 06:14:51	154.81	22782
135 07:56:54	129.29	22783
135 09:38:57	103.78	22784
135 11:21:00	78.27	22785
135 13:03:03	52.76	22786
135 14:45:06	27.25	22787
135 16:27:09	1.74	22788
135 18:09:12	-23.77	22789
135 19:51:15	-49.28	22790
135 21:33:18	-74.79	22791
135 23:15:21	-100.30	22792

135 00:59:47	-81.56	13797
135 02:41:03	-106.88	13798
135 04:22:19	-132.19	13799
135 06:03:34	-157.50	13800
135 07:44:50	177.18	13801
135 09:26:06	151.86	13802
135 11:07:22	126.55	13803
135 12:48:38	101.23	13804
135 14:29:54	75.91	13805
135 16:11:10	50.59	13806
135 17:52:26	25.27	13807
135 19:33:41	-0.03	13808
135 21:14:57	-25.35	13809
135 22:56:13	-50.67	13810

135 00:30:18	-161.15	3280
135 02:12:26	173.31	3281
135 03:54:33	147.79	3282
135 05:36:40	122.26	3283
135 07:18:48	96.72	3284
135 09:00:55	71.20	3285
135 10:43:03	45.66	3286
135 12:25:10	20.14	3287
135 14:07:17	-5.39	3288
135 15:49:25	-30.93	3289
135 17:31:32	-56.45	3290
135 19:13:40	-81.99	3291
135 20:55:47	-107.52	3292
135 22:37:54	-133.04	3293

136 00:57:24	-123.81	22793
136 02:39:27	-151.32	22794
136 04:21:30	-176.83	22795
136 06:03:33	157.66	22796
136 07:45:36	132.15	22797
136 09:27:39	106.64	22798
136 11:09:42	81.13	22799
136 12:51:45	55.62	22800
136 14:33:48	30.11	22801
136 16:15:51	4.59	22802
136 17:57:54	-20.92	22803
136 19:39:57	-46.43	22804
136 21:21:59	-71.92	22805
136 23:04:02	-97.43	22806

136 00:37:29	-75.99	13811
136 02:18:45	-101.30	13812
136 04:00:01	-126.62	13813
136 05:41:17	-151.94	13814
136 07:22:33	-177.26	13815
136 09:03:48	157.44	13816
136 10:45:04	132.12	13817
136 12:26:20	106.80	13818
136 14:07:36	81.48	13819
136 15:48:52	56.17	13820
136 17:30:08	30.85	13821
136 19:11:24	5.53	13822
136 20:52:40	-19.79	13823
136 22:33:55	-45.09	13824

136 00:20:02	-158.58	3294
136 02:02:09	175.90	3295
136 03:44:17	150.36	3296
136 05:26:24	124.83	3297
136 07:06:31	99.31	3298
136 08:50:39	73.77	3299
136 10:32:46	48.25	3300
136 12:14:54	22.71	3301
136 13:57:01	-2.82	3302
136 15:39:08	-28.34	3303
136 17:21:16	-53.88	3304
136 19:03:23	-79.41	3305
136 20:45:31	-104.94	3306
136 22:27:38	-130.47	3307

SATELLITE C1**Ascending Node Predictions****Predicting for 183 days**

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

137 01:23:41	-24.60	34352
137 03:09:01	-51.06	34353
137 04:54:22	-77.52	34354
137 06:39:43	-103.98	34355
137 08:25:04	-130.45	34356
137 10:10:25	-156.91	34357
137 11:55:45	176.63	34358
137 13:41:06	150.17	34359
137 15:26:27	123.70	34360
137 17:11:48	97.24	34361
137 18:57:09	70.78	34362
137 20:42:29	44.32	34363
137 22:27:50	17.85	34364

SATELLITE C2**Ascending Node Predictions****Predicting for 183 days**

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

137 01:02:28	54.57	30828
137 02:47:20	28.23	30829
137 04:32:13	1.88	30830
137 06:17:05	-24.46	30831
137 08:01:57	-50.80	30832
137 09:46:49	-77.15	30833
137 11:31:42	-103.49	30834
137 13:16:34	-129.83	30835
137 15:01:26	-156.18	30836
137 16:46:18	177.48	30837
137 18:31:11	151.14	30838
137 20:16:03	124.79	30839
137 22:00:55	98.45	30840
137 23:45:47	72.11	30841

SATELLITE C3**Ascending Node Predictions****Predicting for 183 days**

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

137 00:04:10	118.57	24569
137 01:49:05	92.21	24570
137 03:34:01	65.86	24571
137 05:18:56	39.50	24572
137 07:03:52	13.15	24573
137 08:48:47	-13.21	24574
137 10:33:42	-39.57	24575
137 12:18:38	-65.92	24576
137 14:03:33	-92.28	24577
137 15:48:29	-118.63	24578
137 17:33:24	-144.99	24579
137 19:18:19	-171.35	24580
137 21:03:15	162.30	24581
137 22:48:10	135.94	24582

138 00:13:11	-8.61	34365
138 01:58:32	-35.07	34366
138 03:43:53	-61.53	34367
138 05:29:14	-87.99	34368
138 07:14:34	-114.46	34369
138 08:59:55	-140.92	34370
138 10:45:16	-167.38	34371
138 12:30:37	166.16	34372
138 14:15:58	139.69	34373
138 16:01:18	113.23	34374
138 17:46:39	86.77	34375
138 19:32:00	60.30	34376
138 21:17:21	33.84	34377
138 23:02:42	7.38	34378

138 01:30:40	45.76	30842
138 03:15:32	19.42	30843
138 05:00:24	-6.92	30844
138 06:45:17	-33.26	30845
138 08:30:09	-59.61	30846
138 10:15:01	-85.95	30847
138 11:59:53	-112.30	30848
138 13:44:46	-138.64	30849
138 15:29:38	-164.98	30850
138 17:14:30	168.67	30851
138 18:59:22	142.33	30852
138 20:44:15	115.99	30853
138 22:29:07	89.64	30854

138 00:33:06	109.58	24583
138 02:18:01	83.23	24584
138 04:02:56	56.87	24585
138 05:47:52	30.51	24586
138 07:32:47	4.16	24587
138 09:17:43	-22.20	24588
138 11:02:38	-48.56	24589
138 12:47:33	-74.91	24590
138 14:32:29	-101.27	24591
138 16:17:24	-127.63	24592
138 18:02:20	-153.98	24593
138 19:47:15	179.66	24594
138 21:32:10	153.30	24595
138 23:17:06	126.95	24596

139 00:48:02	-19.08	34379
139 02:33:23	-45.55	34380
139 04:18:44	-72.01	34381
139 06:04:05	-98.47	34382
139 07:49:26	-124.93	34383
139 09:34:47	-151.39	34384
139 11:20:07	-177.86	34385
139 13:05:28	155.68	34386
139 14:50:49	129.22	34387
139 16:36:10	102.76	34388
139 18:21:31	76.29	34389
139 20:06:51	49.83	34390
139 21:52:12	23.37	34391
139 23:37:33	-3.09	34392

139 00:13:59	63.30	30855
139 01:58:51	36.96	30856
139 03:43:44	10.62	30857
139 05:28:36	-15.73	30858
139 07:13:28	-42.07	30859
139 08:58:20	-68.42	30860
139 10:43:13	-94.76	30861
139 12:28:05	-121.10	30862
139 14:12:57	-147.45	30863
139 15:57:49	-173.79	30864
139 17:42:42	159.87	30865
139 19:27:34	133.52	30866
139 21:12:26	107.18	30867
139 22:57:18	86.84	30868

139 01:02:01	100.59	24597
139 02:46:37	74.24	24598
139 04:31:52	47.88	24599
139 06:16:47	21.32	24600
139 08:01:43	-4.83	24601
139 09:46:38	-31.19	24602
139 11:31:34	-57.54	24603
139 13:16:29	-83.90	24604
139 15:01:24	-110.26	24605
139 16:46:20	-136.61	24606
139 18:31:15	-162.97	24607
139 20:16:11	170.67	24608
139 22:01:06	144.32	24609
139 23:46:01	117.96	24610

140 01:22:54	-29.36	34393
140 03:08:15	-56.02	34394
140 04:53:35	-82.48	34395
140 06:38:56	-108.94	34396
140 08:24:17	-135.41	34397
140 10:09:38	-161.87	34398
140 11:54:59	171.67	34399
140 13:40:20	145.21	34400
140 15:25:40	118.74	34401
140 17:11:01	92.28	34402
140 18:56:22	65.82	34403
140 20:41:43	39.36	34404
140 22:27:04	12.89	34405

140 00:42:11	54.50	30869
140 02:27:03	28.15	30870
140 04:11:55	1.81	30871
140 05:56:47	-24.54	30872
140 07:41:40	-50.88	30873
140 09:26:32	-77.22	30874
140 11:11:24	-103.57	30875
140 12:56:16	-129.91	30876
140 14:41:09	-156.25	30877
140 16:26:01	177.40	30878
140 18:10:53	151.06	30879
140 19:55:45	124.72	30880
140 21:40:38	98.38	30881
140 23:25:30	72.03	30882

140 01:30:57	91.60	24611
140 03:15:52	65.23	24612
140 05:00:48	38.89	24613
140 06:45:43	12.33	24614
140 08:30:38	-13.82	24615
140 10:15:34	-80.18	24616
140 12:00:29	-66.54	24617
140 13:45:23	-92.89	24618
140 15:30:20	-119.25	24619
140 17:15:15	-145.61	24620
140 19:00:11	-171.96	24621
140 20:45:06	161.68	24622
140 22:30:02	135.33	24623

SATELLITE S2

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

137 00:46:05	-122.94	22807
137 02:28:08	-148.45	22808
137 04:10:11	-173.97	22809
137 05:52:14	160.52	22810
137 07:34:17	135.01	22811
137 09:16:20	109.50	22812
137 10:58:23	83.99	22813
137 12:40:26	58.48	22814
137 14:22:29	32.97	22815
137 16:04:32	7.46	22816
137 17:46:35	-18.03	22817
137 19:28:38	-43.56	22818
137 21:10:41	-69.07	22819
137 22:52:44	-94.58	22820

SATELLITE S3

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

137 00:15:11	-70.41	13825
137 01:56:27	-95.73	13826
137 03:37:43	-121.05	13827
137 05:18:59	-146.37	13828
137 07:00:15	-171.68	13829
137 08:41:31	163.00	13830
137 10:22:47	137.68	13831
137 12:04:02	112.37	13832
137 13:45:18	87.06	13833
137 15:26:34	61.74	13834
137 17:07:50	36.42	13835
137 18:49:06	11.10	13836
137 20:30:22	-14.22	13837
137 22:11:38	-39.53	13838
137 23:52:54	-64.85	13839

SATELLITE S4

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

137 00:09:46	-156.01	3308
137 01:51:53	178.47	3309
137 03:34:00	152.94	3310
137 05:16:08	127.41	3311
137 06:58:15	101.88	3312
137 08:40:23	76.34	3313
137 10:22:30	50.82	3314
137 12:04:37	25.29	3315
137 13:46:45	-25	3316
137 15:28:52	-25.77	3317
137 17:11:00	-51.31	3318
137 18:53:07	-76.83	3319
137 20:35:14	-102.36	3320
137 22:17:22	-127.90	3321
137 23:59:29	-153.42	3322

138 00:34:47	-120.09	22821
138 02:16:50	-145.60	22822
138 03:58:53	-171.11	22823
138 05:40:56	163.38	22824
138 07:22:59	137.87	22825
138 09:05:02	112.36	22826
138 10:47:05	86.84	22827
138 12:29:08	61.33	22828
138 14:11:11	35.82	22829
138 15:53:14	10.31	22830
138 17:35:17	-15.20	22831
138 19:17:20	-40.71	22832
138 20:59:23	-66.22	22833
138 22:41:26	-91.73	22834

138 01:34:09	-90.16	13840
138 03:15:25	-115.48	13841
138 04:56:41	-140.79	13842
138 06:37:57	-166.11	13843
138 08:19:13	168.57	13844
138 10:00:29	143.25	13845
138 11:41:45	117.93	13846
138 13:23:01	92.62	13847
138 15:04:16	67.31	13848
138 16:45:32	41.99	13849
138 18:26:48	16.67	13850
138 20:08:04	-8.64	13851
138 21:49:20	-33.96	13852
138 23:30:36	-59.28	13853

138 01:41:37	-178.96	3323
138 03:23:44	155.52	3324
138 05:05:51	129.99	3325
138 06:47:59	104.45	3326
138 08:30:06	78.93	3327
138 10:12:14	53.39	3328
138 11:54:21	27.87	3329
138 13:36:29	2.33	3330
138 15:18:36	-23.20	3331
138 17:00:43	-48.72	3332
138 18:42:51	-74.26	3333
138 20:24:58	-99.79	3334
138 22:07:06	-125.32	3335
138 23:49:13	-150.85	3336

139 00:23:29	-117.24	22835
139 02:05:31	-142.74	22836
139 03:47:34	-168.25	22837
139 05:29:37	166.24	22838
139 07:11:40	140.73	22839
139 08:53:43	115.22	22840
139 10:35:46	89.71	22841
139 12:17:49	64.20	22842
139 13:59:52	38.69	22843
139 15:41:55	13.18	22844
139 17:23:58	-12.33	22845
139 19:06:01	-37.84	22846
139 20:48:04	-63.35	22847
139 22:30:07	-88.86	22848

139 01:11:32	-84.60	13854
139 02:53:08	-109.92	13855
139 04:34:23	-135.22	13856
139 06:15:39	-160.54	13857
139 07:56:55	174.14	13858
139 09:38:11	148.82	13859
139 11:19:27	123.51	13860
139 13:00:43	98.19	13861
139 14:41:59	72.87	13862
139 16:23:15	47.55	13863
139 18:04:30	22.25	13864
139 19:45:46	-3.07	13865
139 21:27:02	-28.39	13866
139 23:08:18	-53.71	13867

139 01:31:20	-176.37	3337
139 03:13:28	158.09	3338
139 04:55:35	132.56	3339
139 06:37:43	107.02	3340
139 08:19:50	81.50	3341
139 10:01:57	55.98	3342
139 11:44:05	30.44	3343
139 13:26:12	4.91	3344
139 15:08:20	-20.63	3345
139 16:50:27	-46.15	3346
139 18:32:34	-71.68	3347
139 20:14:42	-97.21	3348
139 21:56:49	-122.74	3349
139 23:38:57	-148.28	3350

140 00:12:10	-114.37	22849
140 01:54:13	-139.88	22850
140 03:36:16	-165.39	22851
140 05:18:19	169.10	22852
140 07:00:22	143.58	22853
140 08:42:25	118.07	22854
140 10:24:28	92.56	22855
140 12:06:31	67.03	22856
140 13:48:34	41.54	22857
140 15:30:37	16.03	22858
140 17:12:40	-9.48	22859
140 18:54:43	-34.99	22860
140 20:36:46	-60.50	22861
140 22:18:49	-86.01	22862

140 00:49:34	-79.03	13868
140 02:30:50	-104.34	13869
140 04:12:06	-129.66	13870
140 05:53:22	-154.98	13871
140 07:34:37	179.72	13872
140 09:15:53	154.40	13873
140 10:57:09	129.08	13874
140 12:38:25	103.76	13875
140 14:19:41	78.44	13876
140 16:00:57	53.12	13877
140 17:42:13	27.81	13878
140 19:23:29	2.49	13879
140 21:04:44	-22.82	13880
140 22:46:00	-48.13	13881

140 01:21:04	-173.80	3351
140 03:03:11	160.67	3352
140 04:45:19	135.14	3353
140 06:27:26	109.61	3354
140 08:09:34	84.07	3355
140 09:51:41	58.55	3356
140 11:33:49	33.01	3357
140 13:15:56	7.48	3358
140 14:58:03	-18.04	3359
140 16:40:11	-43.58	3360
140 18:22:18	-69.10	3361
140 20:04:26	-94.64	3362
140 21:46:33	-120.17	3363
140 23:28:40	-145.69	3364

SATELLITE C1
Ascending Node Predictions

Predicting for 183 days

TIME (GMT) **E LONG ORBIT**
 day hr mn sc deg dg

141 00:12:24	-13.37	34406
141 01:57:45	-40.03	34407
141 03:43:06	-66.49	34408
141 05:28:27	-92.96	34409
141 07:13:48	-119.42	34410
141 08:59:08	-145.88	34411
141 10:44:29	-172.34	34412
141 12:29:50	161.19	34413
141 14:15:11	134.73	34414
141 16:00:32	106.27	34415
141 17:45:53	81.81	34416
141 19:31:13	55.34	34417
141 21:16:34	28.88	34418
141 23:01:55	2.42	34419

SATELLITE C2
Ascending Node Predictions

Predicting for 183 days

TIME (GMT) **E LONG ORBIT**
 day hr mn sc deg dg

141 01:10:22	45.69	30883
141 02:55:15	19.35	30884
141 04:40:07	-7.00	30885
141 06:24:59	-33.34	30886
141 08:09:51	-59.69	30887
141 09:54:44	-86.03	30888
141 11:39:36	-112.37	30889
141 13:24:28	-138.72	30890
141 15:09:20	-165.06	30891
141 16:54:13	168.60	30892
141 18:39:05	142.26	30893
141 20:23:57	115.91	30894
141 22:08:49	89.57	30895
141 23:53:42	63.23	30896

SATELLITE C3
Ascending Node Predictions

Predicting for 183 days

TIME (GMT) **E LONG ORBIT**
 day hr mn sc deg dg

141 00:14:57	108.97	24624
141 01:59:52	82.61	24625
141 03:44:48	56.26	24626
141 05:29:43	29.90	24627
141 07:14:39	3.35	24628
141 08:59:34	-22.81	24629
141 10:44:30	-49.17	24630
141 12:29:25	-75.52	24631
141 14:14:20	-101.88	24632
141 15:59:16	-128.24	24633
141 17:44:11	-154.59	24634
141 19:29:07	179.03	24635
141 21:14:02	152.69	24636
141 22:58:57	126.34	24637

142 00:47:16	-24.04	34420
142 02:32:37	-50.50	34421
142 04:17:57	-76.97	34422
142 06:03:18	-103.43	34423
142 07:48:39	-129.89	34424
142 09:34:00	-156.35	34425
142 11:19:21	177.18	34426
142 13:04:41	150.72	34427
142 14:50:02	124.26	34428
142 16:35:23	97.79	34429
142 18:20:44	71.33	34430
142 20:06:05	44.87	34431
142 21:51:26	18.41	34432
142 23:36:46	-8.06	34433

142 01:38:34	36.98	30897
142 03:23:26	10.54	30898
142 05:08:18	-15.81	30899
142 06:53:11	-42.15	30900
142 08:38:03	-68.49	30901
142 10:22:55	-94.84	30902
142 12:07:47	-121.18	30903
142 13:52:40	-147.52	30904
142 15:37:32	-173.86	30905
142 17:22:24	159.79	30906
142 19:07:16	133.45	30907
142 20:52:09	107.11	30908
142 22:37:01	80.76	30909

142 00:43:53	99.98	24638
142 02:28:48	73.62	24639
142 04:13:44	47.27	24640
142 05:58:39	20.91	24641
142 07:43:34	-5.43	24642
142 09:28:30	-31.80	24643
142 11:13:25	-58.16	24644
142 12:58:21	-84.51	24645
142 14:43:16	-110.87	24646
142 16:28:11	-137.23	24647
142 18:13:07	-163.58	24648
142 19:58:02	170.06	24649
142 21:42:58	143.71	24650
142 23:27:53	117.35	24651

143 01:22:07	-34.52	34434
143 03:07:28	-60.98	34435
143 04:52:49	-87.44	34436
143 06:38:10	-113.90	34437
143 08:23:30	-140.37	34438
143 10:08:51	-166.83	34439
143 11:54:12	166.71	34440
143 13:39:33	140.25	34441
143 15:24:54	113.78	34442
143 17:10:14	87.32	34443
143 18:55:35	60.86	34444
143 20:40:56	34.40	34445
143 22:26:17	7.93	34446

143 00:21:53	54.42	30910
143 02:06:45	28.07	30911
143 03:51:38	1.73	30912
143 05:36:30	-24.61	30913
143 07:21:22	-50.95	30914
143 09:06:14	-77.30	30915
143 10:51:07	-103.64	30916
143 12:35:59	-129.98	30917
143 14:20:51	-156.33	30918
143 16:05:43	177.33	30919
143 17:50:36	150.99	30920
143 19:35:28	124.64	30921
143 21:20:20	98.30	30922
143 23:05:12	71.95	30923

143 01:12:48	90.99	24632
143 02:57:44	64.64	24633
143 04:42:39	38.28	24654
143 06:27:35	11.92	24655
143 08:12:30	-14.43	24656
143 09:57:25	-40.79	24657
143 11:42:21	-67.15	24658
143 13:27:16	-93.50	24659
143 15:12:12	-119.86	24660
143 16:57:07	-146.22	24661
143 18:42:02	-172.57	24662
143 20:26:58	161.07	24663
143 22:11:53	134.71	24664
143 23:56:09	108.36	24665

144 00:11:38	-18.53	34447
144 01:36:58	-44.99	34448
144 03:42:19	-71.45	34449
144 05:27:40	-97.92	34450
144 07:13:01	-124.38	34451
144 08:58:22	-150.84	34452
144 10:43:43	-177.30	34453
144 12:29:03	156.23	34454
144 14:14:24	129.77	34455
144 15:59:45	103.31	34456
144 17:45:06	76.85	34457
144 19:30:27	50.39	34458
144 21:15:47	23.92	34459
144 23:01:08	-2.54	34460

144 00:30:05	45.61	30924
144 02:34:57	19.27	30925
144 04:19:49	-7.07	30926
144 06:04:41	-33.42	30927
144 07:49:34	-59.76	30928
144 09:34:26	-86.10	30929
144 11:19:18	-112.45	30930
144 13:04:10	-138.79	30931
144 14:49:03	-165.13	30932
144 16:33:55	168.52	30933
144 18:18:47	142.18	30934
144 20:03:39	115.84	30935
144 21:48:32	89.49	30936
144 23:33:24	63.15	30937

144 01:41:44	82.00	24666
144 03:26:39	55.64	24667
144 05:11:35	29.29	24668
144 06:56:30	2.93	24669
144 08:41:26	-23.42	24670
144 10:26:21	-49.78	24671
144 12:11:16	-76.14	24672
144 13:56:12	-102.49	24673
144 15:41:07	-128.85	24674
144 17:26:03	-155.20	24675
144 19:10:58	178.44	24676
144 20:35:53	152.08	24677
144 22:40:49	125.73	24678

SATELLITE S2

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

141	00:00:52	-111.52	22863
141	01:42:55	-137.03	22864
141	03:24:58	-162.54	22865
141	05:07:00	171.96	22866
141	06:49:03	146.45	22867
141	08:31:06	120.94	22868
141	10:13:09	95.43	22869
141	11:55:12	69.92	22870
141	13:37:15	44.41	22871
141	15:19:18	18.96	22872
141	17:01:21	-6.61	22873
141	18:43:24	-32.12	22874
141	20:25:27	-57.63	22875
141	22:07:30	-83.14	22876
141	23:49:33	-108.65	22877

SATELLITE S3

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

141	00:27:16	-73.45	13882
141	02:08:32	-98.77	13883
141	03:49:48	-124.09	13884
141	05:31:04	-149.41	13885
141	07:12:20	-174.72	13886
141	08:53:36	159.96	13887
141	10:34:51	134.65	13888
141	12:16:07	109.33	13889
141	13:57:23	84.02	13890
141	15:38:39	58.70	13891
141	17:19:55	33.38	13892
141	19:01:11	8.06	13893
141	20:42:27	-17.26	13894
141	22:23:42	-42.56	13895

SATELLITE S4

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

141	01:10:48	-171.23	3365
141	02:52:55	163.25	3366
141	04:35:03	137.71	3367
141	06:17:10	112.18	3368
141	07:59:17	86.66	3369
141	09:41:25	61.12	3370
141	11:23:32	35.59	3371
141	13:05:40	10.06	3372
141	14:47:47	-15.47	3373
141	16:29:55	-41.01	3374
141	18:12:02	-66.53	3375
141	19:54:09	-92.06	3376
141	21:36:17	-117.59	3377
141	23:18:24	-143.12	3378

142	01:31:36	-134.17	22878
142	03:13:39	-159.68	22879
142	04:55:42	174.81	22880
142	06:37:45	149.30	22881
142	08:19:48	123.79	22882
142	10:01:51	98.28	22883
142	11:43:54	72.77	22884
142	13:25:57	47.26	22885
142	15:08:00	21.75	22886
142	16:50:03	-3.76	22887
142	18:32:06	-29.27	22888
142	20:14:09	-54.78	22889
142	21:56:12	-80.29	22890
142	23:38:15	-105.80	22891

142	00:04:58	-67.88	13896
142	01:46:14	-93.20	13897
142	03:27:30	-118.52	13898
142	05:08:46	-143.83	13899
142	06:50:02	-169.15	13900
142	08:31:18	165.53	13901
142	10:12:34	140.21	13902
142	11:53:49	114.91	13903
142	13:35:05	89.59	13904
142	15:16:21	64.27	13905
142	16:57:37	38.95	13906
142	18:38:53	13.63	13907
142	20:20:09	-11.68	13908
142	22:01:25	-37.00	13909
142	23:42:41	-62.32	13910

142	01:00:32	-168.66	3379
142	02:42:39	165.82	3380
142	04:24:46	140.29	3381
142	06:06:54	114.75	3382
142	07:49:01	89.23	3383
142	09:31:09	63.69	3384
142	11:13:16	38.17	3385
142	12:55:23	12.64	3386
142	14:37:31	-12.90	3387
142	16:19:38	-38.42	3388
142	18:01:46	-63.96	3389
142	19:43:53	-89.48	3390
142	21:26:00	-115.01	3391
142	23:08:08	-140.55	3392

143	01:20:18	-131.31	22892
143	03:02:21	-156.82	22893
143	04:44:24	177.67	22894
143	06:26:26	152.17	22895
143	08:08:29	126.66	22896
143	09:50:32	101.15	22897
143	11:32:35	73.64	22898
143	13:14:38	50.13	22899
143	14:56:41	24.62	22900
143	16:38:44	-.89	22901
143	18:20:47	-26.41	22902
143	20:02:50	-51.92	22903
143	21:44:53	-77.43	22904
143	23:26:36	-102.94	22905

143	01:23:56	-87.62	13911
143	03:05:12	-112.94	13912
143	04:46:28	-138.26	13913
143	06:27:44	-163.58	13914
143	08:09:00	171.10	13915
143	09:50:16	145.78	13916
143	11:31:32	120.47	13917
143	13:12:48	95.15	13918
143	14:54:03	69.84	13919
143	16:35:19	44.53	13920
143	18:16:35	19.21	13921
143	19:57:51	-6.11	13922
143	21:39:07	-31.43	13923
143	23:20:23	-56.75	13924

143	00:50:15	-166.07	3393
143	02:32:23	168.39	3394
143	04:14:30	142.87	3395
143	05:56:38	117.33	3396
143	07:38:45	91.80	3397
143	09:20:52	66.28	3398
143	11:03:00	40.74	3399
143	12:45:07	15.21	3400
143	14:27:15	-10.32	3401
143	16:09:22	-35.85	3402
143	17:51:29	-61.37	3403
143	19:33:37	-86.91	3404
143	21:15:44	-112.44	3405
143	22:57:52	-137.97	3406

144	01:08:39	-128.45	22906
144	02:51:02	-153.96	22907
144	04:33:05	-179.47	22908
144	06:15:08	155.02	22909
144	07:57:11	129.51	22910
144	09:39:14	104.00	22911
144	11:21:17	78.49	22912
144	13:03:20	52.98	22913
144	14:45:23	27.47	22914
144	16:27:26	1.96	22915
144	18:09:29	-23.55	22916
144	19:51:32	-49.06	22917
144	21:33:35	-74.57	22918
144	23:15:38	-100.08	22919

144	01:01:39	-82.07	13925
144	02:42:55	-107.38	13926
144	04:24:11	-132.70	13927
144	06:05:26	-158.01	13928
144	07:46:42	176.68	13929
144	09:27:58	151.36	13930
144	11:09:14	126.04	13931
144	12:50:30	100.72	13932
144	14:31:46	75.40	13933
144	16:13:02	50.09	13934
144	17:54:18	24.77	13935
144	19:35:33	-54	13936
144	21:16:49	-25.86	13937
144	22:58:05	-51.17	13938

144	00:39:39	-163.50	3407
144	02:22:06	170.98	3408
144	04:04:14	145.44	3409
144	05:46:21	119.91	3410
144	07:28:29	94.37	3411
144	09:10:36	68.85	3412
144	10:52:43	43.32	3413
144	12:34:51	17.79	3414
144	14:16:58	-7.74	3415
144	15:59:06	-33.28	3416
144	17:41:13	-58.80	3417
144	19:23:21	-84.34	3418
144	21:05:28	-109.86	3419
144	22:47:35	-135.39	3420

SATELLITE C1				SATELLITE C2				SATELLITE C3			
Ascending Node Predictions				Ascending Node Predictions				Ascending Node Predictions			
Predicting for 183 days				Predicting for 183 days				Predicting for 183 days			
TIME (GMT)	E LONG	ORBIT		TIME (GMT)	E LONG	ORBIT		TIME (GMT)	E LONG	ORBIT	
day hr mn sc	deg dg			day hr mn sc	deg dg			day hr mn sc	deg dg		
145 00:46:29	-29.00	34461		145 01:18:16	36.81	30938		145 00:23:44	99.37	24679	
145 02:31:50	-55.47	34462		145 03:03:08	10.46	30939		145 02:10:40	73.01	24680	
145 04:17:11	-81.93	34463		145 04:48:01	-15.88	30940		145 03:55:35	46.66	24681	
145 06:02:31	-108.39	34464		145 06:32:53	-42.22	30941		145 05:40:31	20.30	24682	
145 07:47:52	-134.85	34465		145 08:17:45	-68.57	30942		145 07:25:26	-6.06	24683	
145 09:33:13	-161.32	34466		145 10:02:37	-94.91	30943		145 09:10:21	-32.41	24684	
145 11:18:34	172.22	34467		145 11:47:30	-121.25	30944		145 10:55:17	-58.77	24685	
145 13:03:55	145.76	34468		145 13:32:22	-147.60	30945		145 12:40:12	-85.13	24686	
145 14:49:15	119.30	34469		145 15:17:14	-173.94	30946		145 14:29:08	-111.48	24687	
145 16:34:36	92.83	34470		145 17:02:06	159.72	30947		145 16:10:03	-137.84	24688	
145 18:19:57	66.37	34471		145 18:46:59	133.37	30948		145 17:54:58	-164.20	24689	
145 20:05:18	39.91	34472		145 20:31:51	107.03	30949		145 19:39:54	169.43	24690	
145 21:50:39	13.45	34473		145 22:16:43	80.69	30950		145 21:24:49	143.09	24691	
145 23:36:00	-13.01	34474						145 23:09:45	116.74	24692	
146 01:21:20	-39.48	34475		146 00:01:36	34.35	30951		146 00:54:40	90.38	24693	
146 03:06:41	-65.94	34476		146 01:46:28	28.00	30952		146 02:39:35	64.02	24694	
146 04:52:02	-92.40	34477		146 03:31:20	1.66	30953		146 04:24:31	37.67	24695	
146 06:37:23	-118.86	34478		146 05:16:12	-24.69	30954		146 06:09:26	11.31	24696	
146 08:22:44	-145.33	34479		146 07:01:05	-51.03	30955		146 07:54:22	-15.04	24697	
146 10:08:04	-171.79	34480		146 08:45:57	-77.37	30956		146 09:39:17	-41.40	24698	
146 11:53:25	161.75	34481		146 10:30:49	-103.72	30957		146 11:24:12	-67.76	24699	
146 13:38:46	135.29	34482		146 12:15:41	-130.06	30958		146 13:09:08	-94.11	24700	
146 15:24:07	108.82	34483		146 14:00:34	-156.40	30959		146 14:54:03	-120.47	24701	
146 17:09:28	82.36	34484		146 15:45:26	177.25	30960		146 16:38:59	-146.83	24702	
146 18:54:48	55.90	34485		146 17:30:18	150.91	30961		146 18:23:54	-173.18	24703	
146 20:40:09	29.44	34486		146 19:15:10	124.57	30962		146 20:08:49	160.46	24704	
146 22:25:30	2.97	34487		146 21:00:03	98.23	30963		146 21:53:45	134.10	24705	
				146 22:44:55	71.88	30964		146 23:38:40	107.75	24706	
147 00:10:51	-23.49	34488		147 00:29:47	45.54	30965		147 01:23:36	81.39	24707	
147 01:56:12	-49.95	34489		147 02:14:39	19.19	30966		147 03:08:31	55.83	24708	
147 03:41:32	-76.42	34490		147 03:59:32	-7.15	30967		147 04:53:26	28.68	24709	
147 05:26:53	-102.88	34491		147 05:44:24	-33.49	30968		147 06:38:22	2.32	24710	
147 07:12:14	-129.34	34492		147 07:29:16	-59.84	30969		147 08:23:17	-24.04	24711	
147 08:57:35	-155.80	34493		147 09:14:08	-86.18	30970		147 10:08:13	-50.39	24712	
147 10:42:56	177.74	34494		147 10:59:01	-112.52	30971		147 11:53:08	-76.75	24713	
147 12:28:17	151.28	34495		147 12:43:53	-138.86	30972		147 13:38:04	-103.10	24714	
147 14:13:37	124.81	34496		147 14:28:45	-165.21	30973		147 15:22:59	-129.46	24715	
147 15:58:58	98.35	34497		147 16:13:37	168.45	30974		147 17:07:54	-155.82	24716	
147 17:44:19	71.89	34498		147 17:58:30	142.11	30975		147 18:52:50	177.83	24717	
147 19:29:40	45.42	34499		147 19:43:22	115.76	30976		147 20:37:45	151.47	24718	
147 21:15:01	18.96	34500		147 21:28:14	89.42	30977		147 22:22:41	125.11	24719	
147 23:00:21	-7.50	34501		147 23:13:06	63.07	30978					
148 00:45:42	-33.96	34502		148 00:57:59	36.73	30979		148 00:07:36	98.76	24720	
148 02:31:03	-60.43	34503		148 02:42:31	10.39	30980		148 01:52:31	72.40	24721	
148 04:16:24	-86.89	34504		148 04:27:43	-15.95	30981		148 03:37:27	46.04	24722	
148 06:01:45	-113.35	34505		148 06:12:35	-42.30	30982		148 05:22:22	19.69	24723	
148 07:47:05	-139.81	34506		148 07:57:28	-68.64	30983		148 07:07:18	-6.67	24724	
148 09:32:26	-166.28	34507		148 09:42:20	-94.98	30984		148 08:52:13	-33.03	24725	
148 11:17:47	167.26	34508		148 11:27:12	-121.33	30985		148 10:37:08	-59.38	24726	
148 13:03:08	140.86	34509		148 13:12:04	-147.67	30986		148 12:22:04	-85.74	24727	
148 14:48:29	114.34	34510		148 14:56:57	-174.01	30987		148 14:06:59	-112.09	24728	
148 16:33:49	87.87	34511		148 16:41:49	159.64	30988		148 15:51:55	-138.45	24729	
148 18:19:10	61.41	34512		148 18:26:41	133.30	30989		148 17:36:50	-164.81	24730	
148 20:04:31	34.95	34513		148 20:11:33	106.95	30990		148 19:21:43	168.84	24731	
148 21:49:52	8.49	34514		148 21:56:26	80.61	30991		148 21:06:41	142.48	24732	
148 23:35:13	-17.97	34515		148 23:41:18	54.27	30992		148 22:51:36	116.12	24733	

West longitude is negative (-)

SATELLITE S2
Ascending Node Predictions

Predicting for 183 days

 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

145 00:57:41	-125.59	22920
145 02:39:44	-151.11	22921
145 04:21:47	-176.62	22922
145 06:03:50	157.87	22923
145 07:45:52	132.38	22924
145 09:27:55	106.87	22925
145 11:09:58	81.36	22926
145 12:52:01	55.84	22927
145 14:34:04	30.33	22928
145 16:16:07	4.82	22929
145 17:58:10	-20.69	22930
145 19:40:13	-46.20	22931
145 21:22:16	-71.71	22932
145 23:04:19	-97.22	22933

SATELLITE S3
Ascending Node Predictions

Predicting for 183 days

 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

145 00:39:21	-76.49	13939
145 02:20:37	-101.81	13940
145 04:01:53	-127.13	13941
145 05:43:09	-152.45	13942
145 07:24:25	-177.76	13943
145 09:05:40	156.93	13944
145 10:46:56	131.61	13945
145 12:28:12	106.29	13946
145 14:09:28	80.98	13947
145 15:50:44	55.66	13948
145 17:32:00	30.34	13949
145 19:13:16	5.02	13950
145 20:54:32	-20.30	13951
145 22:35:47	-45.60	13952

SATELLITE S4
Ascending Node Predictions

Predicting for 183 days

 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

145 00:29:43	-160.93	3421
145 02:11:50	173.55	3422
145 03:53:58	148.01	3423
145 05:36:05	122.48	3424
145 07:18:12	96.96	3425
145 09:00:20	71.42	3426
145 10:42:27	45.90	3427
145 12:24:35	20.36	3428
145 14:06:42	-5.17	3429
145 15:48:49	-30.69	3430
145 17:30:57	-56.23	3431
145 19:13:04	-81.75	3432
145 20:55:12	-107.29	3433
145 22:37:19	-132.82	3434

146 00:46:22	-122.73	22934
146 02:28:25	-148.24	22935
146 04:10:28	-173.75	22936
146 05:52:31	160.74	22937
146 07:34:34	135.23	22938
146 09:16:37	109.72	22939
146 10:58:40	84.21	22940
146 12:40:43	58.70	22941
146 14:22:46	33.19	22942
146 16:04:49	7.68	22943
146 17:46:52	-17.83	22944
146 19:28:55	-43.35	22945
146 21:10:58	-68.86	22946
146 22:53:01	-94.37	22947

146 00:17:03	-70.92	13953
146 01:59:19	-96.24	13954
146 03:39:35	-121.56	13955
146 05:20:51	-146.87	13956
146 07:02:07	-172.19	13957
146 08:43:23	162.49	13958
146 10:24:39	137.17	13959
146 12:05:54	111.87	13960
146 13:47:10	86.55	13961
146 15:28:26	61.23	13962
146 17:09:42	35.91	13963
146 18:50:58	10.59	13964
146 20:32:14	-14.72	13965
146 22:13:30	-40.04	13966
146 23:54:46	-65.36	13967

146 00:19:27	-158.36	3435
146 02:01:34	176.12	3436
146 03:43:41	150.60	3437
146 05:25:49	123.06	3438
146 07:07:56	99.53	3439
146 08:50:04	73.99	3440
146 10:32:11	48.47	3441
146 12:14:18	22.94	3442
146 13:56:26	-2.59	3443
146 15:38:33	-28.12	3444
146 17:20:41	-53.66	3445
146 19:02:48	-79.18	3446
146 20:44:55	-104.71	3447
146 22:27:03	-130.24	3448

147 00:35:04	-119.88	22948
147 02:17:07	-145.39	22949
147 03:59:10	-170.90	22950
147 05:41:13	163.59	22951
147 07:23:16	138.08	22952
147 09:05:18	112.58	22953
147 10:47:21	87.07	22954
147 12:29:24	61.56	22955
147 14:11:27	36.05	22956
147 15:53:30	10.54	22957
147 17:35:33	-14.97	22958
147 19:17:36	-40.48	22959
147 20:59:39	-65.99	22960
147 22:41:42	-91.50	22961

147 01:36:01	-90.66	13968
147 03:17:17	-115.98	13969
147 04:38:33	-141.30	13970
147 06:39:49	-166.62	13971
147 08:21:05	168.06	13972
147 10:02:21	142.75	13973
147 11:43:37	117.43	13974
147 13:24:53	92.11	13975
147 15:06:08	66.80	13976
147 16:47:24	41.49	13977
147 18:28:40	16.17	13978
147 20:09:56	-9.15	13979
147 21:51:12	-34.47	13980
147 23:32:28	-59.79	13981

147 00:09:10	-155.77	3449
147 01:51:18	178.69	3450
147 03:33:25	153.17	3451
147 05:15:33	127.63	3452
147 06:57:40	102.10	3453
147 08:39:47	76.38	3454
147 10:21:55	51.04	3455
147 12:04:02	23.52	3456
147 13:46:10	-.02	3457
147 15:29:17	-25.55	3458
147 17:10:24	-51.07	3459
147 18:52:32	-76.61	3460
147 20:34:39	-102.13	3461
147 22:16:47	-127.67	3462
147 23:58:54	-153.20	3463

148 00:23:45	-117.01	22962
148 02:05:48	-142.52	22963
148 03:47:51	-168.03	22964
148 05:29:54	166.46	22965
148 07:11:57	140.95	22966
148 08:54:00	115.44	22967
148 10:36:03	89.93	22968
148 12:18:06	64.42	22969
148 14:00:09	38.90	22970
148 15:42:12	13.39	22971
148 17:24:15	-12.12	22972
148 19:06:18	-37.63	22973
148 20:48:21	-63.14	22974
148 22:30:24	-88.65	22975

148 01:13:44	-85.10	13982
148 02:55:00	-110.42	13983
148 04:36:15	-135.73	13984
148 06:17:31	-161.05	13985
148 07:58:47	173.64	13986
148 09:40:03	148.32	13987
148 11:21:19	123.00	13988
148 13:02:35	97.68	13989
148 14:43:51	72.36	13990
148 16:25:07	47.03	13991
148 18:06:22	21.74	13992
148 19:47:38	-3.58	13993
148 21:28:54	-28.90	13994
148 23:10:10	-54.21	13995

148 01:41:01	-178.72	3464
148 03:23:09	155.74	3465
148 05:05:16	130.22	3466
148 06:47:24	104.68	3467
148 08:29:31	79.15	3468
148 10:11:39	53.61	3469
148 11:53:46	28.09	3470
148 13:35:53	2.56	3471
148 15:18:01	-22.97	3472
148 17:00:08	-48.50	3473
148 18:42:16	-74.04	3474
148 20:24:23	-99.56	3475
148 22:06:30	-125.09	3476
148 23:48:38	-150.62	3477

SATELLITE C1**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

149 01:20:34	-44.44	34516
149 03:05:54	-70.90	34517
149 04:51:15	-97.36	34518
149 06:36:36	-123.82	34519
149 08:21:57	-150.29	34520
149 10:07:18	-176.75	34521
149 11:52:38	156.79	34522
149 13:37:59	130.33	34523
149 15:23:20	103.86	34524
149 17:08:41	77.40	34525
149 18:54:02	50.94	34526
149 20:39:22	24.48	34527
149 22:24:43	-1.99	34528

SATELLITE C2**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

149 01:26:10	27.93	30993
149 03:11:02	1.58	30994
149 04:55:55	-24.76	30995
149 06:40:47	-51.10	30996
149 08:25:39	-77.45	30997
149 10:10:31	-103.79	30998
149 11:55:24	-130.13	30999
149 13:40:16	-156.48	31000
149 15:25:08	177.18	31001
149 17:10:00	150.84	31002
149 18:54:53	124.49	31003
149 20:39:45	98.15	31004
149 22:24:37	71.81	31005

SATELLITE C3**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

149 00:36:32	89.77	24734
149 02:21:27	63.41	24735
149 04:06:22	37.03	24736
149 05:51:18	10.70	24737
149 07:36:13	-15.66	24738
149 09:21:09	-42.01	24739
149 11:06:04	-68.37	24740
149 12:50:59	-94.73	24741
149 14:35:55	-121.06	24742
149 16:20:50	-147.44	24743
149 18:05:46	-173.80	24744
149 19:50:41	159.85	24745
149 21:35:37	133.49	24746
149 23:20:32	107.13	24747

150 00:10:04	-28.43	34529
150 01:55:25	-54.91	34530
150 03:40:46	-81.37	34531
150 05:26:06	-107.84	34532
150 07:11:27	-134.30	34533
150 08:56:48	-160.76	34534
150 10:42:09	172.78	34535
150 12:27:30	146.32	34536
150 14:12:50	119.85	34537
150 15:58:11	93.39	34538
150 17:43:32	66.93	34539
150 19:28:53	40.46	34540
150 21:14:14	14.00	34541
150 22:59:35	-12.46	34542

150 00:09:29	43.46	31006
150 01:54:21	19.12	31007
150 03:39:14	-7.22	31008
150 05:24:06	-33.57	31009
150 07:08:58	-59.91	31010
150 08:53:50	-86.25	31011
150 10:38:43	-112.60	31012
150 12:23:35	-138.94	31013
150 14:08:27	-165.28	31014
150 15:53:19	168.37	31015
150 17:38:12	142.03	31016
150 19:23:04	115.69	31017
150 21:07:56	89.34	31018
150 22:52:48	63.00	31019

150 01:05:27	80.78	24748
150 02:50:23	54.42	24749
150 04:35:18	28.06	24750
150 06:20:14	1.71	24751
150 08:05:09	-24.65	24752
150 09:50:04	-51.01	24753
150 11:35:00	-77.36	24754
150 13:19:55	-103.72	24755
150 15:04:51	-130.07	24756
150 16:49:46	-156.43	24757
150 18:34:41	177.21	24758
150 20:19:37	150.86	24759
150 22:04:32	124.50	24760
150 23:49:28	98.15	24761

151 00:44:55	-38.92	34543
151 02:30:16	-65.39	34544
151 04:15:37	-91.85	34545
151 06:00:58	-118.31	34546
151 07:46:19	-144.77	34547
151 09:31:39	-171.24	34548
151 11:17:00	162.30	34549
151 13:02:21	135.84	34550
151 14:47:42	109.38	34551
151 16:33:03	82.92	34552
151 18:18:23	56.45	34553
151 20:03:44	29.99	34554
151 21:49:05	3.53	34555
151 23:34:26	-22.93	34556

151 00:37:41	36.66	31020
151 02:22:33	10.31	31021
151 04:07:25	-16.03	31022
151 05:52:17	-42.37	31023
151 07:37:10	-68.71	31024
151 09:22:02	-95.06	31025
151 11:06:54	-121.40	31026
151 12:51:46	-147.75	31027
151 14:36:39	-174.09	31028
151 16:21:31	159.57	31029
151 18:06:23	133.22	31030
151 19:51:15	106.88	31031
151 21:36:08	80.54	31032
151 23:21:00	54.20	31033

151 01:34:23	71.79	24762
151 03:19:18	45.43	24763
151 05:04:14	19.08	24764
151 06:49:09	-7.28	24765
151 08:34:05	-33.64	24766
151 10:19:00	-59.99	24767
151 12:03:56	-86.35	24768
151 13:48:51	-112.71	24769
151 15:33:46	-139.06	24770
151 17:18:42	-165.42	24771
151 19:03:37	168.22	24772
151 20:48:33	141.87	24773
151 22:33:28	115.51	24774

152 01:19:47	-49.40	34557
152 03:05:07	-75.86	34558
152 04:50:28	-102.32	34559
152 06:35:49	-128.78	34560
152 08:21:10	-155.25	34561
152 10:06:31	178.29	34562
152 11:51:51	151.83	34563
152 13:37:12	123.37	34564
152 15:22:33	98.90	34565
152 17:07:54	72.44	34566
152 18:53:15	45.98	34567
152 20:38:35	19.52	34568
152 22:23:56	-6.95	34569

152 01:05:32	27.85	31034
152 02:50:44	1.51	31035
152 04:35:37	-24.83	31036
152 06:20:29	-51.18	31037
152 08:05:21	-77.52	31038
152 09:50:13	-103.87	31039
152 11:35:06	-130.21	31040
152 13:19:58	-156.35	31041
152 15:04:50	177.11	31042
152 16:49:42	150.76	31043
152 18:34:35	124.42	31044
152 20:19:27	98.08	31045
152 22:04:19	71.73	31046
152 23:49:11	45.39	31047

152 00:18:23	89.15	24775
152 02:03:19	62.80	24776
152 03:48:14	36.44	24777
152 05:33:10	10.09	24778
152 07:18:05	-16.27	24779
152 09:03:00	-42.63	24780
152 10:47:56	-68.98	24781
152 12:32:51	-95.34	24782
152 14:17:47	-121.70	24783
152 16:02:42	-148.05	24784
152 17:47:37	-174.41	24785
152 19:32:33	159.23	24786
152 21:17:28	132.88	24787
152 23:02:24	106.52	24788

SATELLITE S2

Ascending Node Predictions
 Predicting for 183 days
 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

149 00:12:27	-114.16	22976
149 01:54:30	-139.67	22977
149 03:36:33	-165.18	22978
149 05:18:36	169.31	22979
149 07:00:39	143.80	22980
149 08:42:42	118.29	22981
149 10:24:44	92.79	22982
149 12:06:47	67.28	22983
149 13:48:50	41.77	22984
149 15:30:53	16.26	22985
149 17:12:56	-9.25	22986
149 18:54:59	-34.76	22987
149 20:37:02	-60.27	22988
149 22:19:05	-85.78	22989

SATELLITE S3

Ascending Node Predictions
 Predicting for 183 days
 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

149 00:31:26	-79.53	13996
149 02:32:42	-104.85	13997
149 04:13:58	-130.17	13998
149 05:55:14	-155.49	13999
149 07:36:29	179.21	14000
149 09:17:45	153.89	14001
149 10:59:01	128.57	14002
149 12:40:17	103.26	14003
149 14:21:33	77.94	14004
149 16:02:49	52.62	14005
149 17:44:05	27.30	14006
149 19:25:21	1.98	14007
149 21:06:37	-23.33	14008
149 22:47:52	-48.64	14009

SATELLITE S4

Ascending Node Predictions
 Predicting for 183 days
 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

149 01:30:45	-176.15	3478
149 03:12:53	158.31	3479
149 04:55:00	132.79	3480
149 06:37:07	107.26	3481
149 08:19:15	81.72	3482
149 10:01:22	56.20	3483
149 11:43:30	30.66	3484
149 13:25:37	5.14	3485
149 15:07:45	-20.40	3486
149 16:49:52	-45.93	3487
149 18:31:59	-71.45	3488
149 20:14:07	-96.99	3489
149 21:56:14	-122.51	3490
149 23:38:22	-148.05	3491

150 00:01:08	-111.29	22990
150 01:43:11	-136.80	22991
150 03:25:14	-162.31	22992
150 05:07:17	172.18	22993
150 06:49:20	146.66	22994
150 08:31:23	121.15	22995
150 10:13:26	95.64	22996
150 11:55:29	70.13	22997
150 13:37:32	44.62	22998
150 15:19:35	19.11	22999
150 17:01:38	-6.40	23000
150 18:43:41	-31.91	23001
150 20:25:44	-57.42	23002
150 22:07:47	-82.93	23003
150 23:49:50	-108.44	23004

150 00:29:08	-73.96	14010
150 02:10:24	-99.28	14011
150 03:51:40	-124.59	14012
150 05:32:56	-149.91	14013
150 07:14:12	-175.23	14014
150 08:55:28	159.45	14015
150 10:36:44	134.13	14016
150 12:17:59	108.83	14017
150 13:59:15	83.51	14018
150 15:40:31	58.19	14019
150 17:21:47	32.87	14020
150 19:03:03	7.56	14021
150 20:44:19	-17.76	14022
150 22:25:35	-43.08	14023

150 01:20:29	-173.58	3492
150 03:02:36	160.90	3493
150 04:44:44	135.36	3494
150 06:26:51	109.84	3495
150 08:08:59	84.30	3496
150 09:51:06	58.77	3497
150 11:33:13	33.25	3498
150 13:15:21	7.71	3499
150 14:57:28	-17.82	3500
150 16:39:36	-43.35	3501
150 18:21:43	-68.88	3502
150 20:03:51	-94.42	3503
150 21:45:58	-119.94	3504
150 23:28:05	-145.47	3505

151 01:31:53	-133.95	23005
151 03:13:56	-159.46	23006
151 04:55:59	175.03	23007
151 06:38:02	149.52	23008
151 08:20:05	124.01	23009
151 10:02:07	98.51	23010
151 11:44:10	73.00	23011
151 13:26:13	47.49	23012
151 15:08:16	21.98	23013
151 16:50:19	-3.53	23014
151 18:32:22	-29.04	23015
151 20:14:25	-54.55	23016
151 21:56:28	-80.06	23017
151 23:38:31	-105.57	23018

151 00:06:51	-68.40	14024
151 01:48:06	-93.70	14025
151 03:29:22	-119.02	14026
151 05:10:38	-144.34	14027
151 06:51:54	-169.66	14028
151 08:33:10	165.02	14029
151 10:14:26	139.71	14030
151 11:55:42	114.39	14031
151 13:36:58	89.07	14032
151 15:18:13	63.77	14033
151 16:59:29	38.45	14034
151 18:40:45	13.13	14035
151 20:22:01	-12.19	14036
151 22:03:17	-37.51	14037
151 23:44:33	-62.82	14038

151 01:10:13	-171.00	3506
151 02:52:20	163.47	3507
151 04:34:28	137.93	3508
151 06:16:35	112.41	3509
151 07:58:42	86.88	3510
151 09:40:50	61.35	3511
151 11:22:57	35.82	3512
151 13:05:05	10.28	3513
151 14:47:12	-15.24	3514
151 16:29:20	-40.78	3515
151 18:11:27	-66.31	3516
151 19:53:34	-91.83	3517
151 21:35:42	-117.37	3518
151 23:17:49	-142.89	3519

152 01:20:34	-131.09	23019
152 03:02:37	-156.60	23020
152 04:44:40	177.89	23021
152 06:26:43	152.38	23022
152 08:08:46	126.87	23023
152 09:50:49	101.36	23024
152 11:32:52	75.85	23025
152 13:14:55	50.34	23026
152 14:56:58	24.83	23027
152 16:39:01	-6.68	23028
152 18:21:04	-26.19	23029
152 20:03:07	-51.70	23030
152 21:45:10	-77.21	23031
152 23:27:13	-102.72	23032

152 01:23:49	-88.14	14039
152 03:07:05	-113.46	14040
152 04:48:20	-138.77	14041
152 06:29:36	-164.08	14042
152 08:10:52	170.60	14043
152 09:52:08	145.28	14044
152 11:33:24	119.96	14045
152 13:14:40	94.64	14046
152 14:55:56	69.33	14047
152 16:37:12	44.01	14048
152 18:18:28	18.69	14049
152 19:59:43	-6.62	14050
152 21:40:59	-31.93	14051
152 23:22:15	-57.25	14052

152 00:39:57	-168.43	3520
152 02:42:04	166.04	3521
152 04:24:11	140.52	3522
152 06:06:19	114.98	3523
152 07:48:26	89.46	3524
152 09:30:34	63.92	3525
152 11:12:41	38.39	3526
152 12:54:48	12.87	3527
152 14:36:56	-12.67	3528
152 16:19:03	-38.19	3529
152 18:01:11	-63.73	3530
152 19:43:18	-89.26	3531
152 21:25:26	-114.80	3532
152 23:07:33	-140.32	3533

SATELLITE C1						SATELLITE C2						SATELLITE C3					
Ascending Node Predictions						Ascending Node Predictions						Ascending Node Predictions					
Predicting for 183 days						Predicting for 183 days						Predicting for 183 days					
TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	day	hr	mn	sc	deg	dg	day	hr	mn
153 00:09:17	-33.41	34570	153 01:34:04	19.05	31048	153 00:47:19	80.16	24789									
153 01:54:38	-59.87	34571	153 03:18:56	-7.30	31049	153 02:32:15	53.81	24790									
153 03:39:59	-86.33	34572	153 05:03:48	-33.64	31050	153 04:17:10	27.45	24791									
153 05:25:20	-112.79	34573	153 06:48:40	-59.98	31051	153 06:02:05	1.09	24792									
153 07:10:40	-139.26	34574	153 08:33:33	-86.33	31052	153 07:47:01	-25.26	24793									
153 08:56:01	-165.72	34575	153 10:18:25	-112.67	31053	153 09:31:56	-51.62	24794									
153 10:41:22	167.82	34576	153 12:03:17	-139.01	31054	153 11:16:52	-77.97	24795									
153 12:26:43	141.36	34577	153 13:48:09	-165.36	31055	153 13:01:47	-104.33	24796									
153 14:12:04	114.89	34578	153 15:33:02	168.30	31056	153 14:46:42	-130.69	24797									
153 15:57:24	88.43	34579	153 17:17:54	141.96	31057	153 16:31:38	-157.04	24798									
153 17:42:45	61.97	34580	153 19:02:46	115.61	31058	153 18:16:33	176.60	24799									
153 19:28:06	35.51	34581	153 20:47:38	89.27	31059	153 20:01:29	150.25	24800									
153 21:13:27	9.04	34582	153 22:32:31	62.93	31060	153 21:46:24	123.89	24801									
153 22:58:48	-17.42	34583				153 23:31:19	97.53	24802									
154 00:44:08	-43.88	34584	154 00:17:23	36.58	31061	154 01:16:15	71.18	24803									
154 02:29:29	-70.34	34585	154 02:02:15	10.24	31062	154 03:01:10	44.82	24804									
154 04:14:50	-96.81	34586	154 03:47:07	-16.10	31063	154 04:46:06	18.46	24805									
154 06:00:11	-123.27	34587	154 05:31:59	-42.45	31064	154 06:31:01	-7.89	24806									
154 07:45:32	-149.73	34588	154 07:16:52	-68.79	31065	154 08:15:57	-34.25	24807									
154 09:30:52	-176.20	34589	154 09:01:44	-95.13	31066	154 10:00:52	-60.61	24808									
154 11:16:13	157.34	34590	154 10:46:36	-121.48	31067	154 11:45:47	-86.96	24809									
154 13:01:34	130.88	34591	154 12:31:28	-147.82	31068	154 13:30:43	-113.32	24810									
154 14:46:55	104.42	34592	154 14:16:21	-174.16	31069	154 15:15:38	-139.68	24811									
154 16:32:16	77.96	34593	154 16:01:13	159.49	31070	154 17:00:34	-166.03	24812									
154 18:17:36	51.49	34594	154 17:46:05	133.15	31071	154 18:45:29	167.61	24813									
154 20:02:57	25.03	34595	154 19:30:57	106.81	31072	154 20:30:24	141.25	24814									
154 21:48:18	-1.43	34596	154 21:15:50	80.47	31073	154 22:15:20	114.90	24815									
154 23:33:39	-27.89	34597	154 23:00:42	54.12	31074												
155 01:19:00	-54.35	34598	155 00:45:34	27.78	31075	155 00:00:15	88.54	24816									
155 03:04:20	-80.82	34599	155 02:30:26	1.43	31076	155 01:45:11	62.19	24817									
155 04:49:41	-107.28	34600	155 04:15:19	-24.91	31077	155 03:30:06	35.83	24818									
155 06:35:02	-133.74	34601	155 06:00:11	-51.25	31078	155 05:15:01	9.47	24819									
155 08:20:23	-160.20	34602	155 07:45:03	-77.60	31079	155 06:39:57	-16.88	24820									
155 10:05:44	173.33	34603	155 09:29:55	-103.94	31080	155 08:44:52	-43.24	24821									
155 11:51:04	146.87	34604	155 11:14:48	-130.28	31081	155 10:29:48	-69.60	24822									
155 13:36:25	120.41	34605	155 12:59:40	-156.62	31082	155 12:14:43	-95.95	24823									
155 15:21:46	93.94	34606	155 14:44:32	177.03	31083	155 13:59:39	-122.31	24824									
155 17:07:07	67.48	34607	155 16:29:24	150.69	31084	155 15:44:34	-148.67	24825									
155 18:52:28	41.02	34608	155 18:14:17	124.35	31085	155 17:29:29	-175.02	24826									
155 20:37:48	14.56	34609	155 19:59:09	98.00	31086	155 19:14:25	158.62	24827									
155 22:23:09	-11.91	34610	155 21:44:01	71.66	31087	155 20:39:20	132.26	24828									
			155 23:28:53	45.32	31088	155 22:44:16	105.91	24829									
156 00:08:30	-38.37	34611	156 01:13:46	18.97	31089	156 00:29:11	79.35	24830									
156 01:53:51	-64.83	34612	156 02:58:38	-7.37	31090	156 02:14:06	53.19	24831									
156 03:39:12	-91.29	34613	156 04:43:30	-33.71	31091	156 03:59:02	26.84	24832									
156 05:24:32	-117.76	34614	156 06:28:22	-60.06	31092	156 05:43:57	-48.48	24833									
156 07:09:53	-144.22	34615	156 08:13:15	-86.40	31093	156 07:28:53	-25.87	24834									
156 08:55:14	-170.68	34616	156 09:58:07	-112.74	31094	156 09:13:48	-52.23	24835									
156 10:40:35	162.86	34617	156 11:42:59	-139.09	31095	156 10:58:44	-78.59	24836									
156 12:25:56	136.40	34618	156 13:27:51	-165.43	31096	156 12:43:39	-104.94	24837									
156 14:11:16	109.93	34619	156 15:12:43	168.23	31097	156 14:28:34	-131.30	24838									
156 15:56:37	83.47	34620	156 16:57:36	141.88	31098	156 16:13:30	-157.66	24839									
156 17:41:58	57.01	34621	156 18:42:28	115.54	31099	156 17:58:25	175.99	24840									
156 19:27:19	30.55	34622	156 20:27:20	89.28	31100	156 19:43:21	149.63	24841									
156 21:12:40	4.08	34623	156 22:12:12	62.85	31101	156 21:28:16	123.27	24842									
156 22:58:01	-22.38	34624	156 23:57:05	36.51	31102	156 23:13:11	96.92	24843									

West longitude is negative (-)

SATELLITE S2

Ascending Node Predictions

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

153 01:09:16	-128.23	23033
153 02:51:19	-153.74	23034
153 04:33:22	-179.25	23035
153 06:15:25	155.24	23036
153 07:57:28	129.72	23037
153 09:39:31	104.21	23038
153 11:21:33	78.72	23039
153 13:03:36	53.21	23040
153 14:45:39	27.70	23041
153 16:27:42	2.19	23042
153 18:09:45	-23.33	23043
153 19:51:48	-48.84	23044
153 21:33:51	-74.35	23045
153 23:15:54	-99.86	23046

SATELLITE S3

Ascending Node Predictions

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

153 01:03:31	-82.57	14053
153 02:44:47	-107.89	14054
153 04:26:03	-133.21	14055
153 06:07:19	-158.52	14056
153 07:48:35	176.16	14057
153 09:29:50	150.83	14058
153 11:11:06	125.54	14059
153 12:52:22	100.22	14060
153 14:33:38	74.90	14061
153 16:14:54	49.58	14062
153 17:56:10	24.26	14063
153 19:37:26	-1.05	14064
153 21:18:42	-26.37	14065
153 22:59:57	-51.68	14066

SATELLITE S4

Ascending Node Predictions

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

153 00:49:40	-165.85	3534
153 02:31:48	168.62	3535
153 04:13:55	143.09	3536
153 05:56:03	117.55	3537
153 07:38:10	92.03	3538
153 09:20:17	66.50	3539
153 11:02:25	40.97	3540
153 12:44:32	15.44	3541
153 14:26:40	-10.10	3542
153 16:08:47	-35.62	3543
153 17:50:55	-61.16	3544
153 19:33:02	-86.68	3545
153 21:15:09	-112.21	3546
153 22:57:17	-137.75	3547

154 00:57:57	-125.37	23047
154 02:40:00	-150.88	23048
154 04:22:03	-176.39	23049
154 06:04:06	158.10	23050
154 07:46:09	132.59	23051
154 09:28:12	107.08	23052
154 11:10:15	81.57	23053
154 12:52:18	56.06	23054
154 14:34:21	30.55	23055
154 16:16:24	5.04	23056
154 17:58:27	-20.47	23057
154 19:40:30	-45.98	23058
154 21:22:33	-71.49	23059
154 23:04:36	-97.00	23060

154 00:41:13	-77.00	14067
154 02:22:29	-102.31	14068
154 04:03:45	-127.63	14069
154 05:45:01	-152.95	14070
154 07:26:17	-178.27	14071
154 09:07:33	156.41	14072
154 10:48:49	131.10	14073
154 12:30:04	105.79	14074
154 14:11:20	80.47	14075
154 15:52:36	55.15	14076
154 17:33:52	29.84	14077
154 19:15:08	4.52	14078
154 20:56:24	-20.80	14079
154 22:37:40	-46.12	14080

154 00:39:24	-163.27	3548
154 02:21:32	171.19	3549
154 04:03:39	145.66	3550
154 05:45:46	120.14	3551
154 07:27:54	94.60	3552
154 09:10:01	69.08	3553
154 10:52:09	43.54	3554
154 12:34:16	18.01	3555
154 14:16:23	-7.51	3556
154 15:58:31	-33.05	3557
154 17:40:38	-58.57	3558
154 19:22:46	-84.11	3559
154 21:04:53	-109.64	3560
154 22:47:01	-135.17	3561

155 00:46:39	-122.52	23061
155 02:28:42	-148.03	23062
155 04:10:45	-173.54	23063
155 05:52:48	160.95	23064
155 07:34:51	135.44	23065
155 09:16:54	109.93	23066
155 10:58:56	84.43	23067
155 12:40:59	58.92	23068
155 14:23:02	33.41	23069
155 16:05:05	7.90	23070
155 17:47:08	-17.61	23071
155 19:29:11	-43.12	23072
155 21:11:14	-68.63	23073
155 22:53:17	-94.14	23074

155 00:18:56	-71.44	14081
155 02:00:12	-96.75	14082
155 03:41:27	-122.06	14083
155 05:22:43	-147.38	14084
155 07:03:59	-172.69	14085
155 08:45:15	161.99	14086
155 10:26:31	136.67	14087
155 12:07:47	111.35	14088
155 13:49:03	86.03	14089
155 15:30:19	60.72	14090
155 17:11:34	35.41	14091
155 18:52:50	10.09	14092
155 20:34:06	-15.23	14093
155 22:15:22	-40.54	14094
155 23:56:38	-65.86	14095

155 00:29:08	-160.70	3562
155 02:11:15	173.78	3563
155 03:53:23	148.24	3564
155 05:35:30	122.71	3565
155 07:17:38	97.17	3566
155 08:59:45	71.65	3567
155 10:41:52	46.12	3568
155 12:24:00	20.39	3569
155 14:06:07	-4.94	3570
155 15:48:15	-30.48	3571
155 17:30:22	-56.00	3572
155 19:12:30	-81.54	3573
155 20:54:37	-107.06	3574
155 22:36:44	-132.59	3575

156 00:35:20	-119.65	23075
156 02:17:23	-145.16	23076
156 03:59:26	-170.67	23077
156 05:41:29	163.82	23078
156 07:23:32	138.31	23079
156 09:05:35	112.80	23080
156 10:47:38	87.29	23081
156 12:29:41	61.78	23082
156 14:11:44	36.27	23083
156 15:53:47	10.76	23084
156 17:35:50	-14.76	23085
156 19:17:53	-40.27	23086
156 20:59:56	-65.78	23087
156 22:41:59	-91.29	23088

156 01:37:54	-91.18	14096
156 03:19:10	-116.50	14097
156 05:00:26	-141.82	14098
156 06:41:42	-167.13	14099
156 08:22:37	167.56	14100
156 10:04:13	142.24	14101
156 11:45:29	116.92	14102
156 13:26:45	91.61	14103
156 15:08:01	66.29	14104
156 16:49:17	40.97	14105
156 18:30:33	15.65	14106
156 20:11:49	-9.67	14107
156 21:53:04	-34.97	14108
156 23:34:20	-60.29	14109

156 00:18:52	-138.13	3576
156 02:00:59	176.35	3577
156 03:43:07	150.81	3578
156 05:25:14	125.29	3579
156 07:07:21	99.76	3580
156 08:49:29	74.22	3581
156 10:31:36	48.70	3582
156 12:13:44	23.16	3583
156 13:55:51	-2.37	3584
156 15:37:59	-27.90	3585
156 17:20:06	-53.43	3586
156 19:02:13	-78.95	3587
156 20:44:21	-104.49	3588
156 22:26:28	-130.02	3589

SATELLITE C1							SATELLITE C2							SATELLITE C3						
Ascending Node Predictions							Ascending Node Predictions							Ascending Node Predictions						
Predicting for 183 days							Predicting for 183 days							Predicting for 183 days						
TIME (GMT)							TIME (GMT)							TIME (GMT)						
day	hr	mn	sc	deg	dg		day	hr	mn	sc	deg	dg		day	hr	mn	sc	deg	dg	
157	00:43:21	-48.84	34625				157	01:41:57	10.17	31103				157	00:38:07	70.56	24844			
157	02:28:42	-75.30	34626				157	03:26:49	-16.18	31104				157	02:43:02	44.20	24845			
157	04:14:03	-101.77	34627				157	05:11:41	-42.52	31105				157	04:27:58	17.85	24846			
157	05:59:24	-128.23	34628				157	06:56:34	-68.86	31106				157	06:12:53	-8.51	24847			
157	07:44:45	-154.69	34629				157	08:41:26	-95.21	31107				157	07:57:48	-34.87	24848			
157	09:30:05	178.85	34630				157	10:26:18	-121.55	31108				157	09:42:44	-61.22	24849			
157	11:15:26	152.38	34631				157	12:11:10	-147.89	31109				157	11:27:39	-87.58	24850			
157	13:00:47	125.92	34632				157	13:56:03	-174.23	31110				157	13:12:35	-113.93	24851			
157	14:46:08	99.46	34633				157	15:40:55	159.42	31111				157	14:57:30	-140.29	24852			
157	16:31:29	73.09	34634				157	17:25:47	133.08	31112				157	16:42:26	-166.65	24853			
157	18:16:49	46.53	34635				157	19:10:39	106.73	31113				157	18:27:21	167.00	24854			
157	20:02:10	20.07	34636				157	20:55:32	80.39	31114				157	20:12:16	140.64	24855			
157	21:47:31	-6.39	34637				157	22:40:24	54.05	31115				157	21:57:12	114.28	24856			
157	23:32:52	-32.85	34638											157	23:42:07	87.93	24857			
158	01:18:13	-59.31	34639				158	00:25:16	27.71	31116				158	01:27:03	61.37	24858			
158	03:03:33	-85.78	34640				158	02:10:08	1.36	31117				158	03:11:58	35.21	24859			
158	04:48:54	-112.24	34641				158	03:55:00	-24.98	31118				158	04:56:53	8.86	24860			
158	06:34:15	-138.70	34642				158	05:39:53	-51.32	31119				158	06:41:49	-17.50	24861			
158	08:19:36	-165.16	34643				158	07:24:45	-77.67	31120				158	08:26:44	-43.86	24862			
158	10:04:57	168.37	34644				158	09:09:37	-104.01	31121				158	10:11:40	-70.21	24863			
158	11:50:17	141.91	34645				158	10:54:29	-130.36	31122				158	11:56:35	-96.57	24864			
158	13:35:38	115.45	34646				158	12:39:22	-156.70	31123				158	13:41:31	-122.92	24865			
158	15:20:59	88.99	34647				158	14:24:14	176.96	31124				158	15:26:26	-149.28	24866			
158	17:06:20	62.52	34648				158	16:09:06	150.62	31125				158	17:11:21	-175.64	24867			
158	18:51:41	36.06	34649				158	17:53:58	124.27	31126				158	18:56:17	158.01	24868			
158	20:37:01	9.60	34650				158	19:38:51	97.93	31127				158	20:41:12	131.65	24869			
158	22:22:22	-16.86	34651				158	21:23:43	71.59	31128				158	22:26:08	105.30	24870			
158	23:08:35	45.24	31129																	
159	00:07:43	-43.33	34652				159	00:53:27	18.90	31130				159	00:11:03	78.94	24871			
159	01:53:04	-69.79	34653				159	02:38:20	-7.44	31131				159	01:55:58	32.58	24872			
159	03:38:25	-96.25	34654				159	04:23:12	-33.79	31132				159	03:40:54	26.23	24873			
159	05:23:45	-122.71	34655				159	06:08:04	-60.13	31133				159	05:23:49	-13	24874			
159	07:09:06	-149.18	34656				159	07:52:56	-86.47	31134				159	07:10:45	-26.49	24875			
159	08:54:27	-175.64	34657				159	09:37:49	-112.81	31135				159	08:55:40	-52.84	24876			
159	10:39:48	157.90	34658				159	11:22:41	-139.16	31136				159	10:40:36	-79.20	24877			
159	12:25:09	131.44	34659				159	13:07:33	-165.50	31137				159	12:25:31	-105.56	24878			
159	14:10:29	104.97	34660				159	14:52:25	168.15	31138				159	14:10:26	-131.91	24879			
159	15:55:50	78.51	34661				159	16:37:17	141.81	31139				159	15:55:22	-158.27	24880			
159	17:41:11	52.05	34662				159	18:22:10	115.47	31140				159	17:40:17	175.37	24881			
159	19:26:32	25.59	34663				159	20:07:02	89.12	31141				159	19:23:13	149.02	24882			
159	21:11:53	-87	34664				159	21:51:54	62.78	31142				159	21:10:08	122.66	24883			
159	22:57:13	-27.34	34665				159	23:36:46	36.44	31143				159	22:55:03	96.30	24884			
160	00:42:34	-53.80	34666				160	01:21:39	10.10	31144				160	00:39:59	69.95	24885			
160	02:27:55	-80.26	34667				160	03:06:31	-16.25	31145				160	02:24:54	43.59	24886			
160	04:13:16	-106.72	34668				160	04:51:23	-42.59	31146				160	04:09:50	17.24	24887			
160	05:58:37	-133.19	34669				160	06:36:15	-68.94	31147				160	05:54:45	-9.12	24888			
160	07:43:57	-159.65	34670				160	08:21:08	-95.28	31148				160	07:39:41	-35.48	24889			
160	09:29:18	173.89	34671				160	10:06:00	-121.62	31149				160	09:24:36	-61.83	24890			
160	11:14:39	147.43	34672				160	11:50:52	-147.96	31150				160	11:09:31	-88.19	24891			
160	13:00:00	120.96	34673				160	13:35:44	-174.31	31151				160	12:54:27	-114.55	24892			
160	14:45:21	94.50	34674				160	15:20:37	159.35	31152				160	14:39:22	-140.90	24893			
160	16:30:41	68.04	34675				160	17:05:29	133.01	31153				160	16:24:18	-167.26	24894			
160	18:16:02	41.58	34676				160	18:50:21	106.66	31154				160	18:09:13	166.38	24895			
160	20:01:23	15.11	34677				160	20:35:13	80.32	31155				160	19:54:08	140.03	24896			
160	21:46:44	-11.35	34678				160	22:20:05	53.98	31156				160	21:39:04	113.67	24897			
160	23:32:05	-37.81	34679											160	23:23:59	87.31	24898			

West longitude is negative (-)

SATELLITE S2

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

157	00:24:02	-116.80	23089
157	02:06:05	-142.31	23090
157	03:48:08	-167.82	23091
157	05:30:11	166.67	23092
157	07:12:14	141.16	23093
157	08:54:17	115.65	23094
157	10:36:20	90.14	23095
157	12:18:22	64.64	23096
157	14:00:25	39.13	23097
157	15:42:28	13.62	23098
157	17:24:31	-11.89	23099
157	19:06:34	-37.40	23100
157	20:48:37	-62.91	23101
157	22:30:40	-88.42	23102

SATELLITE S3

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

157	01:13:36	-85.61	14110
157	02:56:52	-110.92	14111
157	04:38:08	-136.24	14112
157	06:19:24	-161.56	14113
157	08:00:40	173.12	14114
157	09:41:56	147.80	14115
157	11:23:11	122.50	14116
157	13:04:27	97.18	14117
157	14:45:43	71.86	14118
157	16:26:59	46.54	14119
157	18:08:15	21.23	14120
157	19:49:31	-4.09	14121
157	21:30:47	-29.41	14122
157	23:12:03	-54.73	14123

SATELLITE S4

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

157	00:08:36	-135.55	3590
157	01:50:43	178.92	3591
157	03:32:50	153.40	3592
157	05:14:58	127.86	3593
157	06:57:05	102.33	3594
157	08:39:13	76.80	3595
157	10:21:20	51.27	3596
157	12:03:28	25.73	3597
157	13:45:35	-21.21	3598
157	15:27:42	-25.32	3599
157	17:09:50	-50.86	3600
157	18:51:57	-76.38	3601
157	20:34:05	-101.92	3602
157	22:16:12	-127.44	3603
157	23:58:19	-152.97	3604

158	00:12:43	-113.93	23103
158	01:54:46	-139.44	23104
158	03:36:49	-164.95	23105
158	05:18:52	169.54	23106
158	07:00:55	144.03	23107
158	08:42:58	118.52	23108
158	10:25:01	93.01	23109
158	12:07:04	67.49	23110
158	13:49:07	41.98	23111
158	15:31:10	16.47	23112
158	17:13:13	-9.04	23113
158	18:55:16	-34.55	23114
158	20:37:19	-60.06	23115
158	22:19:22	-85.57	23116

158	00:33:19	-80.05	14124
158	02:14:34	-105.35	14125
158	04:15:50	-130.67	14126
158	05:57:06	-155.99	14127
158	07:38:22	178.70	14128
158	09:19:38	153.38	14129
158	11:00:54	128.06	14130
158	12:42:10	102.74	14131
158	14:23:26	77.42	14132
158	16:04:41	52.12	14133
158	17:45:57	26.80	14134
158	19:27:13	1.48	14135
158	21:08:29	-23.84	14136
158	22:49:45	-49.15	14137

158	01:40:27	-178.51	3605
158	03:22:34	155.97	3606
158	05:04:42	130.43	3607
158	06:46:49	104.91	3608
158	08:28:57	79.37	3609
158	10:11:04	53.84	3610
158	11:53:11	28.32	3611
158	13:35:19	2.78	3612
158	15:17:26	-22.74	3613
158	16:59:34	-48.28	3614
158	18:41:41	-73.81	3615
158	20:23:48	-99.33	3616
158	22:05:56	-124.87	3617
158	23:48:03	-150.39	3618

159	00:01:25	-111.08	23117
159	01:43:28	-136.59	23118
159	03:25:31	-162.10	23119
159	05:07:34	172.39	23120
159	06:49:37	146.88	23121
159	08:31:40	121.37	23122
159	10:13:43	95.86	23123
159	11:55:46	70.35	23124
159	13:37:48	44.85	23125
159	15:19:51	19.34	23126
159	17:01:54	-6.17	23127
159	18:43:57	-31.68	23128
159	20:26:00	-57.19	23129
159	22:08:03	-82.70	23130
159	23:50:06	-108.21	23131

159	00:31:01	-74.47	14138
159	02:12:17	-99.79	14139
159	03:53:33	-125.11	14140
159	05:34:49	-150.43	14141
159	07:16:04	-175.73	14142
159	08:57:20	158.95	14143
159	10:38:36	133.63	14144
159	12:19:52	108.31	14145
159	14:01:08	83.00	14146
159	15:42:24	57.68	14147
159	17:23:40	32.36	14148
159	19:04:56	7.04	14149
159	20:46:11	-18.26	14150
159	22:27:27	-43.58	14151

159	01:30:11	-175.93	3619
159	03:12:18	158.54	3620
159	04:54:25	133.02	3621
159	06:36:33	107.48	3622
159	08:18:40	81.95	3623
159	10:00:48	56.42	3624
159	11:42:55	30.89	3625
159	13:23:03	5.35	3626
159	15:07:10	-20.17	3627
159	16:49:17	-45.70	3628
159	18:31:25	-71.23	3629
159	20:13:32	-96.76	3630
159	21:55:40	-122.30	3631
159	23:37:47	-147.82	3632

160	01:32:09	-133.72	23132
160	03:14:12	-159.23	23133
160	04:56:15	175.26	23134
160	06:38:18	149.74	23135
160	08:20:21	124.23	23136
160	10:02:24	98.72	23137
160	11:44:27	73.21	23138
160	13:26:30	47.70	23139
160	15:08:33	22.19	23140
160	16:50:36	-3.32	23141
160	18:32:39	-28.83	23142
160	20:14:42	-54.34	23143
160	21:56:45	-79.85	23144
160	23:38:48	-105.36	23145

160	00:08:43	-68.90	14152
160	01:49:59	-94.22	14153
160	03:31:15	-119.53	14154
160	05:12:31	-144.85	14155
160	06:53:47	-170.17	14156
160	08:35:03	164.31	14157
160	10:16:19	139.19	14158
160	11:57:34	113.89	14159
160	13:38:50	88.57	14160
160	15:20:06	63.25	14161
160	17:01:22	37.93	14162
160	18:42:38	12.62	14163
160	20:23:54	-12.70	14164
160	22:05:10	-38.02	14165
160	23:46:26	-63.34	14166

160	01:19:54	-173.35	3633
160	03:02:02	161.12	3634
160	04:44:09	135.59	3635
160	06:26:17	110.05	3636
160	08:08:24	84.53	3637
160	09:50:32	58.99	3638
160	11:32:39	33.46	3639
160	13:14:46	7.94	3640
160	14:36:54	-17.60	3641
160	16:39:01	-43.12	3642
160	18:21:09	-68.66	3643
160	20:03:16	-94.19	3644
160	21:45:23	-119.71	3645
160	23:27:31	-145.25	3646

SATELLITE C1
Ascending Node Predictions

Predicting for 183 days

 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

161 01:17:25 -64.27 34680
 161 03:02:46 -90.74 34681
 161 04:48:07 -117.20 34682
 161 06:33:28 -143.66 34683
 161 08:18:49 -170.12 34684
 161 10:04:09 163.41 34685
 161 11:49:30 136.95 34686
 161 13:34:51 110.49 34687
 161 15:20:12 84.03 34688
 161 17:05:33 57.57 34689
 161 18:50:53 31.10 34690
 161 20:36:14 4.64 34691
 161 22:21:35 -21.82 34692

SATELLITE C2
Ascending Node Predictions

Predicting for 183 days

 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

161 00:04:58 27.63 31157
 161 01:49:50 1.29 31158
 161 03:34:42 -25.05 31159
 161 05:19:34 -51.40 31160
 161 07:04:27 -77.74 31161
 161 08:49:19 -104.08 31162
 161 10:34:11 -130.43 31163
 161 12:19:03 -156.77 31164
 161 14:03:56 176.89 31165
 161 15:48:48 150.54 31166
 161 17:33:40 124.20 31167
 161 19:18:32 97.86 31168
 161 21:03:25 71.52 31169
 161 22:48:17 45.17 31170

SATELLITE C3
Ascending Node Predictions

Predicting for 183 days

 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

161 01:08:55 60.96 24899
 161 02:53:50 34.60 24900
 161 04:38:46 8.25 24901
 161 06:23:41 -18.11 24902
 161 08:08:36 -44.47 24903
 161 09:53:32 -70.82 24904
 161 11:38:27 -97.18 24905
 161 13:23:23 -123.54 24906
 161 15:08:18 -149.89 24907
 161 16:53:13 -176.25 24908
 161 18:38:09 157.39 24909
 161 20:23:04 131.04 24910
 161 22:08:00 104.68 24911
 161 23:52:55 78.32 24912

162 00:06:56 -48.28 34693
 162 01:52:17 -74.75 34694
 162 03:37:37 -101.21 34695
 162 05:22:58 -127.67 34696
 162 07:08:19 -154.13 34697
 162 08:53:40 179.40 34698
 162 10:39:00 152.94 34699
 162 12:24:21 126.48 34700
 162 14:09:42 100.02 34701
 162 15:55:03 73.55 34702
 162 17:40:24 47.09 34703
 162 19:25:44 20.63 34704
 162 21:11:05 -5.83 34705
 162 22:56:26 -32.30 34706

162 00:33:09 18.83 31171
 162 02:18:01 -7.52 31172
 162 04:02:53 -33.96 31173
 162 05:47:46 -60.20 31174
 162 07:32:38 -86.54 31175
 162 09:17:30 -112.89 31176
 162 11:02:22 -139.23 31177
 162 12:47:15 -165.57 31178
 162 14:32:07 168.08 31179
 162 16:16:39 141.74 31180
 162 18:01:51 115.40 31181
 162 19:46:44 89.05 31182
 162 21:31:36 62.71 31183
 162 23:16:28 36.37 31184

162 01:37:51 51.97 24913
 162 03:22:46 25.61 24914
 162 05:07:41 -7.75 24915
 162 06:52:37 -27.10 24916
 162 08:37:32 -53.46 24917
 162 10:22:28 -79.81 24918
 162 12:07:23 -106.17 24919
 162 13:52:18 -132.53 24920
 162 15:37:14 -158.88 24921
 162 17:22:09 174.76 24922
 162 19:07:05 148.40 24923
 162 20:52:00 122.05 24924
 162 22:36:56 95.69 24925

163 00:41:47 -58.76 34707
 163 02:27:08 -85.22 34708
 163 04:12:28 -111.68 34709
 163 05:57:49 -138.15 34710
 163 07:43:10 -164.61 34711
 163 09:28:31 168.93 34712
 163 11:13:52 142.47 34713
 163 12:59:12 116.00 34714
 163 14:44:33 89.54 34715
 163 16:29:54 63.08 34716
 163 18:15:15 36.62 34717
 163 20:00:36 10.16 34718
 163 21:45:56 -16.31 34719
 163 23:31:17 -42.77 34720

163 01:01:20 10.02 31185
 163 02:46:12 -16.32 31186
 163 04:31:05 -42.66 31187
 163 06:15:57 -69.01 31188
 163 08:00:49 -95.35 31189
 163 09:45:41 -121.69 31190
 163 11:30:34 -148.03 31191
 163 13:15:26 -174.38 31192
 163 15:00:18 159.28 31193
 163 16:45:10 132.93 31194
 163 18:30:03 106.59 31195
 163 20:14:55 80.25 31196
 163 21:59:47 53.90 31197
 163 23:44:39 27.56 31198

163 00:21:31 69.33 24926
 163 02:06:46 42.98 24927
 163 03:51:42 16.62 24928
 163 05:36:37 -9.74 24929
 163 07:21:33 -36.09 24930
 163 09:06:28 -62.45 24931
 163 10:51:24 -88.80 24932
 163 12:36:19 -115.16 24933
 163 14:21:14 -141.52 24934
 163 16:06:10 -167.87 24935
 163 17:51:05 165.77 24936
 163 19:36:01 139.41 24937
 163 21:20:56 113.06 24938
 163 23:05:51 86.70 24939

164 01:16:38 -69.23 34721
 164 03:01:59 -95.69 34722
 164 04:47:20 -122.15 34723
 164 06:32:40 -148.62 34724
 164 08:18:01 -175.08 34725
 164 10:03:22 158.46 34726
 164 11:48:43 132.00 34727
 164 13:34:04 105.53 34728
 164 15:19:24 79.07 34729
 164 17:04:45 52.61 34730
 164 18:50:06 26.15 34731
 164 20:35:27 -32 34732
 164 22:20:48 -26.78 34733

164 01:29:31 1.22 31199
 164 03:14:24 -25.12 31200
 164 04:59:16 -51.47 31201
 164 06:44:08 -77.81 31202
 164 08:29:00 -104.16 31203
 164 10:13:53 -130.50 31204
 164 11:58:45 -156.84 31205
 164 13:43:37 176.82 31206
 164 15:28:29 150.47 31207
 164 17:13:22 124.13 31208
 164 18:58:14 97.79 31209
 164 20:43:06 71.44 31210
 164 22:27:58 95.10 31211

164 00:50:47 60.34 24940
 164 02:35:42 33.99 24941
 164 04:20:38 7.63 24942
 164 06:05:33 -18.73 24943
 164 07:50:29 -45.08 24944
 164 09:35:24 -71.44 24945
 164 11:20:19 -97.80 24946
 164 13:05:15 -124.15 24947
 164 14:50:10 -150.51 24948
 164 16:35:06 -176.86 24949
 164 18:20:01 156.78 24950
 164 20:04:57 130.42 24951
 164 21:49:52 104.07 24952
 164 23:34:47 77.71 24953

SATELLITE S2

Ascending Node Predictions
 Predicting for 183 days
 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

161	01	20	:51	-130.87	23146
161	03	02	:54	-136.38	23147
161	04	14	:57	178.11	23148
161	06	27	:00	152.60	23149
161	08	09	:03	127.09	23150
161	09	51	:06	101.58	23151
161	11	33	:09	76.07	23152
161	13	15	:12	50.55	23153
161	14	37	:14	25.06	23154
161	16	19	:17	-45	23155
161	18	21	:20	-29.96	23156
161	20	03	:23	-51.47	23157
161	21	45	:26	-76.98	23158
161	23	27	:29	-102.50	23159

SATELLITE S3

Ascending Node Predictions
 Predicting for 183 days
 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

161	01	20	:51	-88.64	14167
161	03	08	:57	-113.98	14168
161	04	50	:13	-139.28	14169
161	06	31	:29	-164.60	14170
161	08	12	:45	170.09	14171
161	09	54	:01	144.77	14172
161	11	35	:17	119.45	14173
161	13	16	:33	94.13	14174
161	14	37	:49	68.81	14175
161	16	19	:04	43.51	14176
161	18	20	:20	18.19	14177
161	20	01	:36	-7.13	14178
161	21	42	:52	-32.45	14179
161	23	24	:08	-57.76	14180

SATELLITE S4

Ascending Node Predictions
 Predicting for 183 days
 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

161	01	09	:38	-170.77	3647
161	02	51	:46	163.69	3648
161	04	33	:53	138.16	3649
161	06	16	:01	112.63	3650
161	07	58	:08	87.10	3651
161	09	40	:15	61.58	3652
161	11	22	:23	36.04	3653
161	13	04	:30	10.51	3654
161	14	46	:38	-15.03	3655
161	16	28	:45	-40.55	3656
161	18	10	:52	-66.07	3657
161	19	53	:00	-91.61	3658
161	21	35	:07	-117.14	3659
161	23	17	:15	-142.68	3660

162	01	09	:32	-128.01	23160
162	02	51	:35	-133.52	23161
162	04	33	:38	-179.03	23162
162	06	15	:41	155.46	23163
162	07	57	:44	129.95	23164
162	09	39	:47	104.44	23165
162	11	21	:50	78.93	23166
162	13	03	:53	53.42	23167
162	14	45	:56	27.91	23168
162	16	27	:59	2.40	23169
162	18	10	:02	-23.11	23170
162	19	52	:05	-48.62	23171
162	21	34	:08	-74.13	23172
162	23	16	:11	-99.64	23173

162	01	05	:24	-83.08	14181
162	02	46	:40	-108.40	14182
162	04	27	:56	-133.72	14183
162	06	09	:11	-159.02	14184
162	07	50	:27	175.66	14185
162	09	31	:43	150.34	14186
162	11	12	:59	125.02	14187
162	12	54	:15	99.71	14188
162	14	35	:31	74.39	14189
162	16	16	:47	49.07	14190
162	17	58	:03	23.73	14191
162	19	39	:19	-1.57	14192
162	21	20	:34	-26.87	14193
162	23	01	:50	-52.19	14194

162	00	59	:22	-168.20	3661
162	02	41	:30	166.26	3662
162	04	23	:37	140.74	3663
162	06	05	:44	115.21	3664
162	07	47	:52	89.67	3665
162	09	29	:59	64.15	3666
162	11	12	:07	38.61	3667
162	12	54	:14	13.09	3668
162	14	36	:22	-12.45	3669
162	16	18	:29	-37.98	3670
162	18	00	:36	-63.50	3671
162	19	42	:44	-89.04	3672
162	21	24	:51	-114.56	3673
162	23	06	:59	-140.10	3674

163	00	58	:14	-125.15	23174
163	02	40	:17	-150.66	23175
163	04	22	:20	-176.17	23176
163	06	04	:23	158.32	23177
163	07	46	:26	132.80	23178
163	09	28	:29	107.29	23179
163	11	10	:32	81.78	23180
163	12	52	:35	56.27	23181
163	14	34	:38	30.76	23182
163	16	16	:41	5.25	23183
163	17	58	:43	-20.23	23184
163	19	40	:46	-45.76	23185
163	21	22	:49	-71.27	23186
163	23	04	:52	-96.78	23187

163	00	43	:06	-77.51	14195
163	02	24	:22	-102.83	14196
163	04	05	:38	-128.14	14197
163	05	46	:54	-153.46	14198
163	07	28	:10	-178.78	14199
163	09	09	:26	155.90	14200
163	10	50	:42	130.58	14201
163	12	31	:57	105.28	14202
163	14	13	:13	79.96	14203
163	15	54	:29	54.64	14204
163	17	35	:45	29.33	14205
163	19	17	:01	4.01	14206
163	20	58	:17	-21.31	14207
163	22	39	:33	-46.63	14208

163	00	49	:06	-163.63	3675
163	02	31	:13	168.85	3676
163	04	13	:21	143.31	3677
163	05	55	:28	117.79	3678
163	07	37	:36	92.25	3679
163	09	19	:43	66.72	3680
163	11	01	:51	41.18	3681
163	12	43	:58	15.66	3682
163	14	26	:05	-9.87	3683
163	16	08	:13	-35.40	3684
163	17	50	:20	-60.93	3685
163	19	32	:28	-86.47	3686
163	21	14	:35	-111.99	3687
163	22	56	:42	-137.52	3688

164	00	46	:55	-122.29	23188
164	02	28	:58	-147.80	23189
164	04	11	:01	-173.31	23190
164	05	33	:04	161.18	23191
164	07	35	:07	135.67	23192
164	09	17	:10	110.16	23193
164	10	59	:13	84.65	23194
164	12	41	:16	59.14	23195
164	14	23	:19	33.63	23196
164	16	05	:22	8.12	23197
164	17	47	:25	-17.39	23198
164	19	29	:28	-42.90	23199
164	21	11	:31	-68.41	23200
164	22	53	:34	-93.92	23201

164	00	20	:49	-71.93	14209
164	02	02	:04	-97.25	14210
164	03	43	:20	-122.57	14211
164	05	24	:36	-147.89	14212
164	07	05	:52	-173.21	14213
164	08	47	:08	161.48	14214
164	10	28	:24	136.16	14215
164	12	09	:40	110.84	14216
164	13	50	:56	85.52	14217
164	15	32	:12	60.20	14218
164	17	13	:27	34.90	14219
164	18	54	:43	9.58	14220
164	20	35	:59	-15.74	14221
164	22	17	:15	-41.05	14222
164	23	58	:31	-66.37	14223

164	00	38	:50	-163.05	3689
164	02	20	:57	171.42	3690
164	04	03	:05	145.88	3691
164	05	45	:12	120.36	3692
164	07	27	:20	94.82	3693
164	09	09	:27	69.30	3694
164	10	51	:34	43.77	3695
164	12	33	:42	18.23	3696
164	14	15	:49	-7.29	3697
164	15	57	:57	-32.83	3698
164	17	40	:04	-58.35	3699
164	19	22	:11	-83.88	3700
164	21	04	:19	-109.42	3701
164	22	46	:26	-134.94	3702

SATELLITE C1
Ascending Node Predictions

Predicting for 183 days

 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

165 00:06:08 -53.24 34734
 165 01:51:29 -79.70 34735
 165 03:36:50 -106.17 34736
 165 05:22:11 -132.63 34737
 165 07:07:32 -159.09 34738
 165 08:52:52 174.45 34739
 165 10:38:13 147.98 34740
 165 12:23:34 121.52 34741
 165 14:08:55 93.06 34742
 165 15:54:16 68.60 34743
 165 17:39:36 42.13 34744
 165 19:24:57 15.67 34745
 165 21:10:18 -10.79 34746
 165 22:55:39 -37.25 34747

SATELLITE C2
Ascending Node Predictions

Predicting for 183 days

 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

165 00:12:30 18.76 31212
 165 01:57:43 -7.59 31213
 165 03:42:35 -33.93 31214
 165 05:27:27 -60.27 31215
 165 07:12:19 -86.62 31216
 165 08:57:12 -112.96 31217
 165 10:42:04 -139.30 31218
 165 12:26:56 -165.65 31219
 165 14:11:48 168.01 31220
 165 15:56:41 141.67 31221
 165 17:41:33 115.33 31222
 165 19:26:25 88.98 31223
 165 21:11:17 62.64 31224
 165 22:56:09 36.29 31225

SATELLITE C3
Ascending Node Predictions

Predicting for 183 days

 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

165 01:19:43 51.35 24954
 165 03:04:38 25.00 24955
 165 04:49:34 -1.36 24956
 165 06:34:29 -27.72 24957
 165 08:19:24 -54.07 24958
 165 10:04:20 -80.43 24959
 165 11:49:15 -106.79 24960
 165 13:34:11 -133.14 24961
 165 15:19:06 -159.50 24962
 165 17:04:02 174.15 24963
 165 18:48:57 147.79 24964
 165 20:33:52 121.43 24965
 165 22:18:48 95.08 24966

166 00:40:39 -63.72 34748
 166 02:26:20 -90.18 34749
 166 04:11:41 -116.64 34750
 166 05:57:02 -143.10 34751
 166 07:42:23 -169.56 34752
 166 09:27:43 163.97 34753
 166 11:13:04 137.51 34754
 166 12:58:25 111.05 34755
 166 14:43:46 84.59 34756
 166 16:29:07 58.12 34757
 166 18:14:27 31.66 34758
 166 19:59:48 5.20 34759
 166 21:45:09 -21.26 34760
 166 23:30:30 -47.73 34761

166 00:41:02 9.95 31226
 166 02:25:54 -16.39 31227
 166 04:10:46 -42.73 31228
 166 05:55:38 -69.08 31229
 166 07:40:31 -95.42 31230
 166 09:25:23 -121.76 31231
 166 11:10:15 -148.11 31232
 166 12:55:07 -174.45 31233
 166 14:39:59 159.21 31234
 166 16:24:52 132.86 31235
 166 18:09:44 106.52 31236
 166 19:54:36 80.18 31237
 166 21:39:28 53.83 31238
 166 23:24:21 27.49 31239

166 00:03:43 68.72 24967
 166 01:48:39 42.36 24968
 166 03:33:34 16.01 24969
 166 05:18:30 -10.35 24970
 166 07:03:25 -36.71 24971
 166 08:48:20 -63.06 24972
 166 10:33:16 -89.42 24973
 166 12:18:11 -115.78 24974
 166 14:03:07 -142.13 24975
 166 15:48:02 -168.49 24976
 166 17:32:57 163.15 24977
 166 19:17:53 138.80 24978
 166 21:02:48 112.44 24979
 166 22:47:44 86.09 24980

167 01:15:51 -74.19 34762
 167 03:01:11 -100.65 34763
 167 04:46:32 -127.11 34764
 167 06:31:53 -153.58 34765
 167 08:17:14 179.96 34766
 167 10:02:35 153.50 34767
 167 11:47:55 127.04 34768
 167 13:33:16 100.57 34769
 167 15:18:37 74.11 34770
 167 17:03:58 47.65 34771
 167 18:49:19 21.19 34772
 167 20:34:39 -5.28 34773
 167 22:20:00 -31.74 34774

167 01:09:13 1.15 31240
 167 02:54:05 -25.20 31241
 167 04:38:57 -51.54 31242
 167 06:23:50 -77.88 31243
 167 08:08:42 -104.22 31244
 167 09:53:34 -130.57 31245
 167 11:38:26 -156.91 31246
 167 13:23:18 176.74 31247
 167 15:08:11 150.40 31248
 167 16:53:03 124.06 31249
 167 18:37:55 97.72 31250
 167 20:22:47 71.37 31251
 167 22:07:40 45.03 31252
 167 23:52:32 18.69 31253

167 00:32:39 39.73 24981
 167 02:17:35 33.37 24982
 167 04:02:30 7.01 24983
 167 05:47:23 -19.34 24984
 167 07:32:21 -45.70 24985
 167 09:17:16 -72.06 24986
 167 11:02:12 -98.41 24987
 167 12:47:07 -124.77 24988
 167 14:32:03 -151.12 24989
 167 16:16:58 -177.48 24990
 167 18:01:53 156.16 24991
 167 19:46:49 129.81 24992
 167 21:31:44 103.45 24993
 167 23:16:40 77.09 24994

168 00:05:21 -58.20 34775
 168 01:50:42 -84.66 34776
 168 03:36:02 -111.13 34777
 168 05:21:23 -137.59 34778
 168 07:06:44 -164.05 34779
 168 08:52:03 169.49 34780
 168 10:37:26 143.03 34781
 168 12:22:46 116.56 34782
 168 14:08:07 90.10 34783
 168 15:53:28 63.64 34784
 168 17:38:49 37.18 34785
 168 19:24:10 10.72 34786
 168 21:09:30 -15.75 34787
 168 22:54:51 -42.21 34788

168 01:37:24 -7.66 31254
 168 03:22:16 -34.00 31255
 168 05:07:08 -60.34 31256
 168 06:52:01 -86.69 31257
 168 08:36:53 -113.03 31258
 168 10:21:45 -139.37 31259
 168 12:06:37 -165.72 31260
 168 13:51:30 167.94 31261
 168 15:36:22 141.60 31262
 168 17:21:14 115.25 31263
 168 19:06:06 88.91 31264
 168 20:50:58 62.57 31265
 168 22:35:51 36.23 31266

168 01:01:35 30.74 24995
 168 02:46:31 24.38 24996
 168 04:31:26 -1.98 24997
 168 06:16:21 -28.33 24998
 168 08:01:17 -54.69 24999
 168 09:46:12 -81.05 25000
 168 11:31:08 -107.40 25001
 168 13:16:03 -133.76 25002
 168 15:00:59 -160.11 25003
 168 16:45:54 173.53 25004
 168 18:30:49 147.17 25005
 168 20:15:45 120.82 25006
 168 22:00:40 94.46 25007
 168 23:45:36 68.10 25008

SATELLITE S2

Ascending Node Predictions

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

165 00:33:37	-119.43	23202
165 02:17:40	-144.93	23203
165 03:59:43	-170.46	23204
165 05:41:46	164.03	23205
165 07:23:49	138.52	23206
165 09:05:52	113.01	23207
165 10:47:55	87.50	23208
165 12:29:58	61.99	23209
165 14:12:01	36.48	23210
165 15:54:04	10.97	23211
165 17:36:07	-14.54	23212
165 19:18:10	-40.03	23213
165 21:00:12	-65.55	23214
165 22:42:15	-91.06	23215

SATELLITE S3

Ascending Node Predictions

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

165 01:39:47	-91.69	14224
165 03:21:03	-117.01	14225
165 05:02:19	-142.33	14226
165 06:43:35	-167.64	14227
165 08:24:50	167.05	14228
165 10:06:06	141.73	14229
165 11:47:22	116.41	14230
165 13:28:38	91.10	14231
165 15:09:54	65.78	14232
165 16:51:10	40.46	14233
165 18:32:26	15.14	14234
165 20:13:42	-10.18	14235
165 21:54:57	-35.48	14236
165 23:36:13	-60.80	14237

SATELLITE S4

Ascending Node Predictions

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

165 00:28:34	-160.48	3703
165 02:10:41	173.99	3704
165 03:52:49	148.46	3705
165 05:34:56	122.93	3706
165 07:17:03	97.41	3707
165 08:59:11	71.87	3708
165 10:41:18	46.34	3709
165 12:23:26	20.81	3710
165 14:03:33	-4.72	3711
165 15:47:40	-30.24	3712
165 17:29:48	-55.78	3713
165 19:11:55	-81.31	3714
165 20:54:03	-106.84	3715
165 22:36:10	-132.37	3716

166 00:24:18	-116.57	23216
166 02:06:21	-142.08	23217
166 03:48:24	-167.59	23218
166 05:30:27	166.90	23219
166 07:12:30	141.39	23220
166 08:54:33	115.88	23221
166 10:36:36	90.37	23222
166 12:18:39	64.86	23223
166 14:00:42	39.35	23224
166 15:42:45	13.84	23225
166 17:24:48	-11.67	23226
166 19:06:51	-37.18	23227
166 20:48:54	-62.70	23228
166 22:30:57	-88.21	23229

166 01:17:29	-86.12	14238
166 02:58:45	-111.43	14239
166 04:40:01	-136.75	14240
166 06:21:17	-162.07	14241
166 08:02:33	172.61	14242
166 09:43:49	147.29	14243
166 11:25:05	121.98	14244
166 13:06:20	96.67	14245
166 14:47:36	71.35	14246
166 16:28:52	46.03	14247
166 18:10:08	20.72	14248
166 19:51:24	-4.60	14249
166 21:32:40	-29.92	14250
166 23:13:56	-55.24	14251

166 00:18:18	-137.91	3717
166 02:00:25	176.57	3718
166 03:42:32	151.04	3719
166 05:24:40	125.51	3720
166 07:06:47	99.98	3721
166 08:48:55	74.44	3722
166 10:31:02	48.92	3723
166 12:13:10	23.38	3724
166 13:55:17	-2.15	3725
166 15:37:24	-27.67	3726
166 17:19:32	-53.21	3727
166 19:01:39	-78.73	3728
166 20:43:47	-104.27	3729
166 22:25:54	-129.80	3730

167 00:13:00	-113.72	23230
167 01:55:03	-139.23	23231
167 03:37:06	-164.74	23232
167 05:19:09	169.75	23233
167 07:01:12	144.24	23234
167 08:43:15	118.73	23235
167 10:25:18	93.22	23236
167 12:07:21	67.71	23237
167 13:49:24	42.20	23238
167 15:31:27	16.69	23239
167 17:13:30	-8.82	23240
167 18:55:33	-34.33	23241
167 20:37:36	-59.84	23242
167 22:19:39	-85.35	23243

167 00:53:12	-89.36	14252
167 02:36:28	-105.87	14253
167 04:17:43	-131.18	14254
167 05:58:59	-156.50	14255
167 07:40:15	178.19	14256
167 09:21:31	152.87	14257
167 11:02:47	127.53	14258
167 12:44:03	102.23	14259
167 14:25:19	76.91	14260
167 16:06:35	51.60	14261
167 17:47:51	26.28	14262
167 19:29:06	.97	14263
167 21:10:22	-24.35	14264
167 22:51:38	-49.66	14265

167 00:08:01	-153.32	3731
167 01:50:09	179.14	3732
167 03:32:16	153.62	3733
167 05:14:24	128.08	3734
167 06:56:31	102.55	3735
167 08:38:39	77.02	3736
167 10:20:46	51.49	3737
167 12:02:53	25.97	3738
167 13:45:01	.43	3739
167 15:27:08	-25.10	3740
167 17:09:16	-50.63	3741
167 18:51:23	-76.16	3742
167 20:33:30	-101.68	3743
167 22:13:38	-127.22	3744
167 23:57:45	-152.75	3745

168 00:01:42	-110.86	23244
168 01:43:44	-136.36	23245
168 03:25:47	-161.87	23246
168 05:07:50	172.62	23247
168 06:49:53	147.11	23248
168 08:31:56	121.60	23249
168 10:13:59	96.09	23250
168 11:56:02	70.58	23251
168 13:39:05	45.07	23252
168 15:20:08	19.56	23253
168 17:02:11	-5.96	23254
168 18:44:14	-31.47	23255
168 20:26:17	-56.98	23256
168 22:08:20	-82.49	23257
168 23:50:23	-108.00	23258

168 00:32:54	-74.98	14266
168 02:14:10	-100.30	14267
168 03:55:26	-125.62	14268
168 05:36:42	-150.94	14269
168 07:17:58	-176.25	14270
168 08:59:14	158.43	14271
168 10:40:29	133.12	14272
168 12:21:45	107.81	14273
168 14:03:01	82.49	14274
168 15:44:17	57.17	14275
168 17:25:33	31.85	14276
168 19:06:49	6.53	14277
168 20:48:05	-18.78	14278
168 22:29:21	-44.10	14279

168 01:39:53	-178.29	3746
168 03:22:00	156.19	3747
168 05:04:08	130.63	3748
168 06:46:15	105.13	3749
168 08:28:22	79.60	3750
168 10:10:30	54.06	3751
168 11:52:37	28.54	3752
168 13:34:45	3.00	3753
168 15:16:52	-22.52	3754
168 16:58:59	-48.05	3755
168 18:41:07	-73.59	3756
168 20:23:14	-99.11	3757
168 22:05:22	-124.65	3758
168 23:47:29	-150.17	3759

SATELLITE C1							SATELLITE C2							SATELLITE C3						
Ascending Node Predictions							Ascending Node Predictions							Ascending Node Predictions						
Predicting for 183 days							Predicting for 183 days							Predicting for 183 days						
TIME (GMT)							TIME (GMT)							TIME (GMT)						
day	hr	mn	sc	deg	dg		day	hr	mn	sc	deg	dg		day	hr	mn	sc	deg	dg	
169 00:40:12	-68.67	34789					169 00:20:43	9.88	31267					169 01:30:31	41.75	25009				
169 02:25:33	-95.13	34790					169 02:05:35	-16.46	31268					169 03:15:26	15.39	25010				
169 04:10:54	-121.60	34791					169 03:50:27	-42.81	31269					169 05:00:22	-10.97	25011				
169 05:56:14	-148.06	34792					169 05:35:20	-69.15	31270					169 06:45:17	-37.32	25012				
169 07:41:35	-174.52	34793					169 07:20:12	-95.49	31271					169 08:30:13	-63.68	25013				
169 09:26:56	159.02	34794					169 09:05:04	-121.83	31272					169 10:15:08	-90.04	25014				
169 11:12:17	132.55	34795					169 10:49:56	-148.18	31273					169 12:00:04	-116.39	25015				
169 12:57:38	106.09	34796					169 12:34:48	-174.52	31274					169 13:44:59	-142.75	25016				
169 14:42:58	79.63	34797					169 14:19:41	159.14	31275					169 15:29:54	-169.11	25017				
169 16:28:19	53.17	34798					169 16:04:33	132.79	31276					169 17:14:50	164.54	25018				
169 18:13:40	26.70	34799					169 17:49:25	106.45	31277					169 18:59:45	138.18	25019				
169 19:59:01	.24	34800					169 19:34:17	80.11	31278					169 20:44:41	111.83	25020				
169 21:44:21	-26.22	34801					169 21:19:10	53.76	31279					169 22:29:36	85.47	25021				
169 23:29:42	-52.68	34802					169 23:04:02	27.42	31280											
170 01:15:03	-79.15	34803					170 00:48:54	1.08	31281					170 00:14:32	39.11	25022				
170 03:00:24	-105.61	34804					170 02:33:46	-25.27	31282					170 01:59:27	32.76	25023				
170 04:45:45	-132.07	34805					170 04:18:38	-51.61	31283					170 03:44:22	6.40	25024				
170 06:31:05	-158.53	34806					170 06:03:31	-77.95	31284					170 05:29:18	-19.96	25025				
170 08:16:26	175.00	34807					170 07:48:23	-104.29	31285					170 07:14:13	-46.31	25026				
170 10:01:47	148.54	34808					170 09:33:15	-130.64	31286					170 08:59:09	-72.67	25027				
170 11:47:08	122.08	34809					170 11:18:07	-156.98	31287					170 10:44:04	-99.03	25028				
170 13:32:29	95.62	34810					170 13:03:00	176.68	31288					170 12:29:00	-125.38	25029				
170 15:17:49	69.15	34811					170 14:47:52	150.33	31289					170 14:13:55	-151.74	25030				
170 17:03:10	42.69	34812					170 16:32:44	123.99	31290					170 15:58:50	-178.10	25031				
170 18:48:31	16.23	34813					170 18:17:36	97.65	31291					170 17:43:46	155.55	25032				
170 20:33:52	-10.23	34814					170 20:02:28	71.30	31292					170 19:28:41	129.19	25033				
170 22:19:13	-36.69	34815					170 21:47:21	44.96	31293					170 21:13:37	102.84	25034				
							170 23:32:13	18.62	31294					170 22:58:32	76.48	25035				
171 00:04:33	-63.16	34816					171 01:17:05	-7.73	31295					171 00:43:28	50.12	25036				
171 01:49:54	-89.62	34817					171 03:01:57	-34.07	31296					171 02:28:23	23.77	25037				
171 03:35:15	-116.08	34818					171 04:46:50	-60.41	31297					171 04:13:18	-2.59	25038				
171 05:20:36	-142.54	34819					171 06:31:42	-86.76	31298					171 05:58:14	-28.95	25039				
171 07:05:56	-169.01	34820					171 08:16:34	-113.10	31299					171 07:43:09	-55.31	25040				
171 08:51:17	164.53	34821					171 10:01:26	-139.44	31300					171 09:28:05	-81.66	25041				
171 10:36:38	138.07	34822					171 11:46:18	-165.79	31301					171 11:13:00	-108.02	25042				
171 12:21:59	111.61	34823					171 13:31:11	167.87	31302					171 12:57:56	-134.37	25043				
171 14:07:20	85.15	34824					171 15:16:03	141.53	31303					171 14:42:51	-160.73	25044				
171 15:32:40	58.68	34825					171 17:00:55	115.18	31304					171 16:27:46	172.91	25045				
171 17:38:01	32.22	34826					171 18:45:47	88.84	31305					171 18:12:42	146.56	25046				
171 19:23:22	5.76	34827					171 20:30:40	62.50	31306					171 19:57:37	120.20	25047				
171 21:08:43	-20.70	34828					171 22:15:32	36.16	31307					171 21:42:33	93.84	25048				
171 22:34:04	-47.17	34829												171 23:27:28	67.49	25049				
172 00:39:24	-73.63	34830					172 00:00:24	9.81	31308					172 01:12:24	41.13	25050				
172 02:24:45	-100.09	34831					172 01:45:16	-16.53	31309					172 02:57:19	14.77	25051				
172 04:10:06	-126.55	34832					172 03:30:08	-42.88	31310					172 04:42:14	-11.58	25052				
172 05:55:27	-153.01	34833					172 05:15:01	-69.22	31311					172 06:27:10	-37.94	25053				
172 07:40:48	-179.48	34834					172 06:59:53	-95.56	31312					172 08:12:05	-64.30	25054				
172 09:26:08	154.06	34835					172 08:44:45	-121.90	31313					172 09:57:01	-90.65	25055				
172 11:11:29	127.60	34836					172 10:29:37	-148.25	31314					172 11:41:56	-117.01	25056				
172 12:56:50	101.14	34837					172 12:14:30	-174.59	31315					172 13:26:52	-143.36	25057				
172 14:42:11	74.67	34838					172 13:59:22	159.07	31316					172 15:11:47	-169.72	25058				
172 16:27:31	48.21	34839					172 15:44:14	132.72	31317					172 16:56:42	163.92	25059				
172 18:12:52	21.75	34840					172 17:29:06	106.38	31318					172 18:41:38	137.57	25060				
172 19:58:13	-4.71	34841					172 19:13:58	80.04	31319					172 20:26:33	111.21	25061				
172 21:43:34	-31.18	34842					172 20:58:51	53.70	31320					172 22:11:29	84.85	25062				
172 23:28:55	-57.64	34843					172 22:43:43	27.35	31321					172 23:56:24	58.50	25063				

SATELLITE S2

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

169 01:32:26	-133.51	23259
169 03:14:29	-159.02	23260
169 04:56:32	175.47	23261
169 06:38:35	149.96	23262
169 08:20:38	124.45	23263
169 10:02:41	98.94	23264
169 11:44:44	73.43	23265
169 13:26:47	47.92	23266
169 15:08:50	22.41	23267
169 16:50:53	-3.10	23268
169 18:32:56	-28.61	23269
169 20:14:59	-54.12	23270
169 21:57:02	-79.63	23271
169 23:39:05	-105.14	23272

SATELLITE S3

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

169 00:10:36	-69.41	14280
169 01:51:52	-94.72	14281
169 03:33:08	-120.04	14282
169 05:14:24	-145.36	14283
169 06:55:40	-170.68	14284
169 08:36:56	164.06	14285
169 10:18:12	138.69	14286
169 11:59:28	113.37	14287
169 13:40:44	88.05	14288
169 15:21:59	62.74	14289
169 17:03:15	37.43	14290
169 18:44:31	12.11	14291
169 20:25:47	-13.21	14292
169 22:07:03	-38.53	14293
169 23:48:19	-63.85	14294

SATELLITE S4

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

169 01:29:37	-175.71	3760
169 03:11:44	158.76	3761
169 04:53:51	133.24	3762
169 06:35:59	107.70	3763
169 08:18:06	82.18	3764
169 10:00:14	56.64	3765
169 11:42:21	31.11	3766
169 13:24:29	5.57	3767
169 15:06:36	-19.93	3768
169 16:48:43	-45.47	3769
169 18:30:51	-71.01	3770
169 20:12:58	-96.54	3771
169 21:55:06	-122.08	3772
169 23:37:13	-147.60	3773

170 01:21:08	-130.66	23273
170 03:03:11	-156.17	23274
170 04:45:14	178.32	23275
170 06:27:16	152.83	23276
170 08:09:19	127.32	23277
170 09:51:22	101.81	23278
170 11:33:25	76.30	23279
170 13:15:28	50.78	23280
170 14:57:31	25.27	23281
170 16:39:34	-24	23282
170 18:21:37	-25.75	23283
170 20:03:40	-51.26	23284
170 21:45:43	-76.77	23285
170 23:27:46	-102.28	23286

170 01:29:35	-89.16	14295
170 03:10:51	-114.48	14296
170 04:52:07	-139.96	14297
170 06:33:22	-165.10	14298
170 08:14:38	169.58	14299
170 09:55:54	144.26	14300
170 11:37:10	118.94	14301
170 13:18:26	93.62	14302
170 14:59:42	68.31	14303
170 16:40:58	42.99	14304
170 18:22:14	17.67	14305
170 20:03:30	-7.65	14306
170 21:44:45	-32.95	14307
170 23:26:01	-58.27	14308

170 01:19:20	-173.13	3774
170 03:01:28	161.34	3775
170 04:43:35	135.81	3776
170 06:25:43	110.27	3777
170 08:07:50	84.75	3778
170 09:49:58	59.21	3779
170 11:32:05	33.69	3780
170 13:14:12	8.16	3781
170 14:56:20	-17.38	3782
170 16:38:27	-42.90	3783
170 18:20:35	-68.44	3784
170 20:02:42	-93.96	3785
170 21:44:50	-119.50	3786
170 23:26:57	-145.03	3787

171 01:09:49	-127.79	23287
171 02:51:52	-153.30	23288
171 04:33:55	-178.81	23289
171 06:15:58	155.68	23290
171 07:58:01	130.17	23291
171 09:40:04	104.66	23292
171 11:22:07	79.15	23293
171 13:04:10	53.64	23294
171 14:46:13	28.13	23295
171 16:28:16	2.62	23296
171 18:10:19	-22.89	23297
171 19:52:22	-48.40	23298
171 21:34:25	-73.92	23299
171 23:16:28	-99.43	23300

171 01:07:17	-83.59	14309
171 02:48:33	-108.91	14310
171 04:29:49	-134.23	14311
171 06:11:05	-159.54	14312
171 07:52:21	175.14	14313
171 09:33:37	149.82	14314
171 11:14:53	124.50	14315
171 12:56:08	99.20	14316
171 14:37:24	73.88	14317
171 16:18:40	48.56	14318
171 17:59:56	23.24	14319
171 19:41:12	-2.07	14320
171 21:22:28	-27.39	14321
171 23:03:44	-52.71	14322

171 01:09:04	-170.55	3788
171 02:51:12	163.91	3789
171 04:33:19	138.39	3790
171 06:15:27	112.85	3791
171 07:57:34	87.32	3792
171 09:39:41	61.80	3793
171 11:21:49	36.26	3794
171 13:03:56	10.74	3795
171 14:46:04	-14.90	3796
171 16:28:11	-40.33	3797
171 18:10:19	-65.87	3798
171 19:52:26	-91.39	3799
171 21:34:33	-116.92	3800
171 23:16:41	-142.45	3801

172 00:38:31	-124.94	23301
172 02:40:34	-150.45	23302
172 04:22:37	-175.96	23303
172 06:04:40	158.33	23304
172 07:46:43	133.02	23305
172 09:28:46	107.51	23306
172 11:10:49	82.00	23307
172 12:52:51	56.50	23308
172 14:34:54	30.99	23309
172 16:16:57	5.48	23310
172 17:59:00	-20.03	23311
172 19:41:03	-45.54	23312
172 21:23:06	-71.05	23313
172 23:03:09	-96.56	23314

172 00:45:00	-78.03	14323
172 02:26:16	-103.35	14324
172 04:07:31	-128.65	14325
172 05:48:47	-153.97	14326
172 07:30:03	-179.29	14327
172 09:11:19	155.40	14328
172 10:52:35	130.08	14329
172 12:33:51	104.76	14330
172 14:15:07	79.44	14331
172 15:56:23	54.12	14332
172 17:37:39	28.81	14333
172 19:18:54	3.50	14334
172 21:00:10	-21.82	14335
172 22:41:26	-47.14	14336

172 00:58:48	-167.98	3802
172 02:40:56	166.48	3803
172 04:23:03	140.96	3804
172 06:05:10	115.43	3805
172 07:47:18	89.90	3806
172 09:29:25	64.37	3807
172 11:11:33	38.83	3808
172 12:53:40	13.31	3809
172 14:35:48	-12.23	3810
172 16:17:55	-37.75	3811
172 18:00:02	-63.28	3812
172 19:42:10	-98.82	3813
172 21:24:17	-114.34	3814
172 23:06:25	-139.88	3815

SATELLITE C1

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

173 01:14:13	-84.10	34844
173 02:59:36	-110.56	34845
173 04:44:57	-137.03	34846
173 06:30:18	-163.49	34847
173 08:15:39	170.05	34848
173 10:00:59	143.59	34849
173 11:46:20	117.12	34850
173 13:31:41	90.66	34851
173 15:17:02	64.20	34852
173 17:02:23	37.74	34853
173 18:47:43	11.27	34854
173 20:33:04	-15.19	34855
173 22:18:25	-41.65	34856

SATELLITE C2

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

173 00:28:35	1.01	31322
173 02:13:27	-25.34	31323
173 03:58:19	-51.68	31324
173 05:43:12	-78.02	31325
173 07:28:04	-104.36	31326
173 09:12:56	-130.71	31327
173 10:57:48	-157.05	31328
173 12:42:41	176.61	31329
173 14:27:33	150.26	31330
173 16:12:25	123.92	31331
173 17:57:17	97.58	31332
173 19:42:09	71.23	31333
173 21:27:02	44.89	31334
173 23:11:54	18.55	31335

SATELLITE C3

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

173 01:41:20	32.14	25064
173 03:26:15	5.78	25065
173 05:11:10	-20.57	25066
173 06:56:06	-46.93	25067
173 08:41:01	-73.29	25068
173 10:25:57	-99.64	25069
173 12:10:52	-126.00	25070
173 13:55:48	-152.35	25071
173 15:40:43	-178.71	25072
173 17:25:38	154.93	25073
173 19:10:34	128.58	25074
173 20:55:29	102.22	25075
173 22:40:25	75.86	25076

174 00:03:46	-68.11	34857
174 01:49:06	-94.58	34858
174 03:34:27	-121.04	34859
174 05:19:48	-147.50	34860
174 07:05:09	-173.96	34861
174 08:50:30	159.58	34862
174 10:35:50	133.11	34863
174 12:21:11	106.65	34864
174 14:06:32	80.19	34865
174 15:51:53	53.73	34866
174 17:37:14	27.27	34867
174 19:22:34	.80	34868
174 21:07:55	-25.66	34869
174 22:53:16	-52.12	34870

174 00:56:46	-7.80	31336
174 02:41:38	-34.14	31337
174 04:26:31	-60.48	31338
174 06:11:23	-86.82	31339
174 07:56:15	-113.17	31340
174 09:41:07	-139.51	31341
174 11:25:59	-165.86	31342
174 13:10:52	167.80	31343
174 14:55:44	141.46	31344
174 16:40:36	115.12	31345
174 18:25:28	88.77	31346
174 20:10:20	62.43	31347
174 21:55:13	36.09	31348
174 23:40:05	9.74	31349

174 00:25:20	49.51	25077
174 02:10:16	23.15	25078
174 03:55:11	-3.21	25079
174 05:40:06	-29.57	25080
174 07:25:02	-55.92	25081
174 09:09:57	-82.28	25082
174 10:54:53	-108.63	25083
174 12:39:48	-134.99	25084
174 14:24:44	-161.35	25085
174 16:09:39	172.30	25086
174 17:54:34	145.94	25087
174 19:39:30	119.58	25088
174 21:24:25	93.23	25089
174 23:09:21	66.87	25090

175 00:38:37	-78.58	34871
175 02:23:57	-105.05	34872
175 04:09:18	-131.51	34873
175 05:54:39	-157.97	34874
175 07:40:00	175.57	34875
175 09:25:21	149.10	34876
175 11:10:41	122.64	34877
175 12:56:02	96.18	34878
175 14:41:23	69.72	34879
175 16:26:44	43.25	34880
175 18:12:05	16.79	34881
175 19:57:25	-9.67	34882
175 21:42:46	-36.13	34883
175 23:28:07	-62.59	34884

175 01:24:37	-16.60	31350
175 03:09:49	-42.94	31351
175 04:54:42	-69.29	31352
175 06:39:34	-95.63	31353
175 08:24:26	-121.97	31354
175 10:09:18	-148.32	31355
175 11:54:10	-174.66	31356
175 13:39:03	159.00	31357
175 15:23:55	132.66	31358
175 17:08:47	106.31	31359
175 18:53:39	79.97	31360
175 20:38:32	53.63	31361
175 22:23:24	27.28	31362

175 00:54:16	40.51	25091
175 02:39:12	14.16	25092
175 04:24:07	-12.20	25093
175 06:09:02	-38.56	25094
175 07:53:58	-64.91	25095
175 09:38:53	-91.27	25096
175 11:23:49	-117.62	25097
175 13:08:44	-143.98	25098
175 14:53:40	-170.34	25099
175 16:38:35	163.31	25100
175 18:23:30	136.95	25101
175 20:08:26	110.59	25102
175 21:53:21	84.24	25103
175 23:38:17	57.88	25104

176 01:13:28	-89.06	34885
176 02:58:48	-115.52	34886
176 04:44:09	-141.98	34887
176 06:29:30	-168.44	34888
176 08:14:31	165.09	34889
176 10:00:12	138.63	34890
176 11:45:32	112.17	34891
176 13:30:53	85.71	34892
176 15:16:14	59.24	34893
176 17:01:35	32.78	34894
176 18:46:55	6.32	34895
176 20:32:16	-20.14	34896
176 22:17:37	-46.61	34897

176 00:08:16	.94	31363
176 01:53:08	-25.40	31364
176 03:38:00	-51.75	31365
176 05:22:53	-78.09	31366
176 07:07:45	-104.43	31367
176 08:52:37	-130.78	31368
176 10:37:29	-157.12	31369
176 12:22:21	176.54	31370
176 14:07:14	150.19	31371
176 15:52:06	123.85	31372
176 17:36:58	97.51	31373
176 19:21:50	71.16	31374
176 21:06:43	44.82	31375
176 22:51:35	18.48	31376

176 01:23:12	31.52	25105
176 03:08:08	5.17	25106
176 04:53:03	-21.19	25107
176 06:37:58	-47.55	25108
176 08:22:54	-73.90	25109
176 10:07:49	-100.26	25110
176 11:52:45	-126.61	25111
176 13:37:40	-152.97	25112
176 15:22:36	-179.33	25113
176 17:07:31	154.31	25114
176 18:52:26	127.96	25115
176 20:37:22	101.60	25116
176 22:22:17	79.24	25117

SATELLITE S2

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

173 00:47:12	-122.07	23315
173 02:29:15	-147.58	23316
173 04:11:18	-173.09	23317
173 05:53:21	161.40	23318
173 07:35:24	135.89	23319
173 09:17:27	110.38	23320
173 10:59:30	84.87	23321
173 12:41:33	59.36	23322
173 14:23:36	33.85	23323
173 16:05:39	8.34	23324
173 17:47:42	-17.18	23325
173 19:29:45	-42.69	23326
173 21:11:48	-68.20	23327
173 22:53:51	-93.71	23328

SATELLITE S3

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

173 00:22:42	-72.45	14337
173 02:03:58	-97.77	14338
173 03:45:14	-123.09	14339
173 05:26:30	-148.41	14340
173 07:07:46	-173.73	14341
173 08:49:02	160.96	14342
173 10:30:17	135.65	14343
173 12:11:33	110.33	14344
173 13:52:49	85.02	14345
173 15:34:05	59.70	14346
173 17:15:21	34.38	14347
173 18:56:37	9.06	14348
173 20:37:53	-16.26	14349
173 22:19:09	-41.57	14350

SATELLITE S4

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

173 00:48:32	-165.40	3816
173 02:30:40	169.06	3817
173 04:12:47	143.53	3818
173 05:54:54	118.01	3819
173 07:37:02	92.47	3820
173 09:19:09	66.94	3821
173 11:01:17	41.41	3822
173 12:43:24	15.88	3823
173 14:25:31	-9.64	3824
173 16:07:39	-35.18	3825
173 17:49:46	-60.71	3826
173 19:31:54	-86.24	3827
173 21:14:01	-111.77	3828
173 22:56:09	-137.31	3829

174 00:35:54	-119.22	23329
174 02:17:57	-144.73	23330
174 04:00:00	-170.24	23331
174 05:42:03	164.25	23332
174 07:24:06	138.74	23333
174 09:06:09	113.23	23334
174 10:48:12	87.72	23335
174 12:30:15	62.21	23336
174 14:12:18	36.70	23337
174 15:54:21	11.19	23338
174 17:36:24	-14.32	23339
174 19:18:27	-39.83	23340
174 21:00:30	-65.34	23341
174 22:42:32	-90.84	23342

174 00:00:23	-66.89	14351
174 01:41:40	-92.20	14352
174 03:22:56	-117.51	14353
174 05:04:12	-142.83	14354
174 06:45:28	-168.15	14355
174 08:26:44	166.53	14356
174 10:08:00	141.21	14357
174 11:49:16	115.90	14358
174 13:30:32	90.58	14359
174 15:11:48	65.26	14360
174 16:53:03	39.95	14361
174 18:34:19	14.64	14362
174 20:15:35	-10.68	14363
174 21:56:51	-36.00	14364
174 23:38:07	-61.32	14365

174 00:38:16	-162.83	3830
174 02:20:23	171.64	3831
174 04:02:31	146.11	3832
174 05:44:38	120.58	3833
174 07:26:46	95.04	3834
174 09:08:53	69.52	3835
174 10:51:01	43.98	3836
174 12:33:08	18.46	3837
174 14:15:15	-7.07	3838
174 15:57:23	-32.61	3839
174 17:39:30	-58.13	3840
174 19:21:38	-83.67	3841
174 21:03:45	-109.19	3842
174 22:45:52	-134.72	3843

175 00:24:35	-116.35	23343
175 02:06:38	-141.86	23344
175 03:48:41	-167.37	23345
175 05:30:44	167.12	23346
175 07:12:47	141.61	23347
175 08:54:50	116.10	23348
175 10:36:53	90.59	23349
175 12:18:56	65.08	23350
175 14:00:59	39.57	23351
175 15:43:02	14.05	23352
175 17:25:05	-11.46	23353
175 19:07:08	-36.97	23354
175 20:49:11	-62.48	23355
175 22:31:14	-87.99	23356

175 01:19:23	-86.64	14366
175 03:00:39	-111.95	14367
175 04:41:55	-137.27	14368
175 06:23:11	-162.59	14369
175 08:04:26	172.11	14370
175 09:45:42	146.79	14371
175 11:26:58	121.47	14372
175 13:08:14	96.15	14373
175 14:49:30	70.83	14374
175 16:30:46	45.52	14375
175 18:12:02	20.20	14376
175 19:53:18	-5.12	14377
175 21:34:34	-30.44	14378
175 23:19:49	-59.74	14379

175 00:28:00	-160.26	3844
175 02:10:07	174.22	3845
175 03:52:15	148.68	3846
175 05:34:22	123.15	3847
175 07:16:30	97.62	3848
175 08:58:37	72.09	3849
175 10:40:44	46.57	3850
175 12:22:52	21.03	3851
175 14:04:59	-4.50	3852
175 15:47:07	-30.03	3853
175 17:29:14	-55.56	3854
175 19:11:22	-81.10	3855
175 20:53:29	-106.62	3856
175 22:35:36	-132.15	3857

176 00:13:17	-113.50	23357
176 01:55:20	-139.01	23358
176 03:37:23	-164.52	23359
176 05:19:26	169.97	23360
176 07:01:29	144.46	23361
176 08:43:32	118.95	23362
176 10:25:35	93.44	23363
176 12:07:38	67.93	23364
176 13:49:41	42.42	23365
176 15:31:44	16.91	23366
176 17:13:47	-8.60	23367
176 18:55:50	-34.11	23368
176 20:37:53	-59.62	23369
176 22:19:56	-85.13	23370

176 00:57:05	-81.06	14380
176 02:38:21	-106.38	14381
176 04:19:37	-131.70	14382
176 06:00:53	-157.01	14383
176 07:42:09	177.67	14384
176 09:23:25	152.35	14385
176 11:04:41	127.03	14386
176 12:45:57	101.71	14387
176 14:27:12	76.41	14388
176 16:08:28	51.09	14389
176 17:49:44	25.77	14390
176 19:31:00	46	14391
176 21:12:16	-24.86	14392
176 22:53:32	-50.18	14393

176 00:17:44	-157.68	3858
176 01:59:51	176.79	3859
176 03:41:59	151.25	3860
176 05:24:06	125.73	3861
176 07:06:13	100.20	3862
176 08:48:21	74.67	3863
176 10:30:28	49.14	3864
176 12:12:36	23.60	3865
176 13:54:43	-1.92	3866
176 15:36:51	-27.46	3867
176 17:18:58	-52.98	3868
176 19:01:03	-78.51	3869
176 20:43:13	-104.05	3870
176 22:25:20	-129.57	3871

SATELLITE C1				SATELLITE C2				SATELLITE C3			
Ascending Node Predictions				Ascending Node Predictions				Ascending Node Predictions			
Predicting for 183 days				Predicting for 183 days				Predicting for 183 days			
TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	day	hr mn sc	deg dg
day	hr	mn	sc	deg	dg	day	hr	mn	sc	deg	dg
177 00:02:58	-73.07	34898	177 00:36:27	-7.86	31377	177 00:07:13	48.89	25118			
177 01:48:19	-99.53	34899	177 02:21:19	-34.21	31378	177 01:52:08	22.53	25119			
177 03:33:39	-125.99	34900	177 04:06:11	-60.55	31379	177 03:37:04	-3.82	25120			
177 05:19:00	-152.46	34901	177 05:51:04	-86.89	31380	177 05:21:59	-30.18	25121			
177 07:04:21	-178.92	34902	177 07:35:56	-113.24	31381	177 07:06:55	-56.54	25122			
177 08:49:42	154.62	34903	177 09:20:48	-139.58	31382	177 08:51:50	-82.89	25123			
177 10:35:03	128.16	34904	177 11:05:40	-165.92	31383	177 10:36:45	-109.25	25124			
177 12:20:23	101.69	34905	177 12:50:32	167.73	31384	177 12:21:41	-135.61	25125			
177 14:05:44	75.23	34906	177 14:35:25	141.39	31385	177 14:06:36	-161.96	25126			
177 15:51:05	48.77	34907	177 16:20:17	115.05	31386	177 15:51:32	171.68	25127			
177 17:36:26	22.31	34908	177 18:05:09	88.70	31387	177 17:36:27	145.32	25128			
177 19:21:46	-4.15	34909	177 19:50:01	62.36	31388	177 19:21:23	118.97	25129			
177 21:07:07	-30.62	34910	177 21:34:54	36.02	31389	177 21:06:18	92.61	25130			
177 22:52:28	-57.08	34911	177 23:19:46	9.68	31390	177 22:31:13	66.25	25131			
178 00:37:49	-83.54	34912	178 01:04:38	-16.67	31391	178 00:36:09	39.90	25132			
178 02:23:10	-110.00	34913	178 02:49:30	-43.01	31392	178 02:21:04	13.54	25133			
178 04:08:30	-136.47	34914	178 04:34:22	-69.36	31393	178 04:06:00	-12.81	25134			
178 05:53:51	-162.93	34915	178 06:19:15	-95.70	31394	178 05:50:55	-39.17	25135			
178 07:39:12	170.61	34916	178 08:04:07	-122.04	31395	178 07:35:51	-65.53	25136			
178 09:24:33	144.15	34917	178 09:48:59	-148.38	31396	178 09:20:46	-91.88	25137			
178 11:09:54	117.69	34918	178 11:33:51	-174.73	31397	178 11:05:41	-118.24	25138			
178 12:55:14	91.22	34919	178 13:18:43	158.93	31398	178 12:50:37	-144.60	25139			
178 14:40:35	64.76	34920	178 15:03:36	132.59	31399	178 14:35:32	-170.95	25140			
178 16:25:56	38.30	34921	178 16:48:28	106.24	31400	178 16:20:28	162.69	25141			
178 18:11:17	11.84	34922	178 18:33:20	79.90	31401	178 18:05:23	136.33	25142			
178 19:56:37	-14.63	34923	178 20:18:12	53.56	31402	178 19:50:19	109.98	25143			
178 21:41:58	-41.09	34924	178 22:03:04	27.21	31403	178 21:35:14	83.62	25144			
178 23:27:19	-67.55	34925	178 23:47:57	.87	31404	178 23:20:09	57.26	25145			
179 01:12:40	-94.01	34926	179 01:32:49	-25.47	31405	179 01:05:05	30.91	25146			
179 02:58:01	-120.47	34927	179 03:17:41	-51.82	31406	179 02:50:00	4.55	25147			
179 04:43:21	-146.94	34928	179 05:02:33	-78.16	31407	179 04:34:56	-21.81	25148			
179 06:28:42	-173.40	34929	179 06:47:26	-104.50	31408	179 06:19:51	-48.16	25149			
179 08:14:03	160.14	34930	179 08:32:18	-130.84	31409	179 08:04:47	-74.52	25150			
179 09:59:24	133.68	34931	179 10:17:10	-157.19	31410	179 09:49:42	-100.88	25151			
179 11:44:44	107.21	34932	179 12:02:02	176.47	31411	179 11:34:37	-127.23	25152			
179 13:30:05	80.75	34933	179 13:46:54	150.12	31412	179 13:19:33	-153.59	25153			
179 15:15:26	54.29	34934	179 15:31:47	123.78	31413	179 15:04:28	-179.95	25154			
179 17:00:47	27.83	34935	179 17:16:39	97.44	31414	179 16:49:24	153.70	25155			
179 18:46:08	1.36	34936	179 19:01:31	71.10	31415	179 18:34:19	127.34	25156			
179 20:31:28	-25.10	34937	179 20:46:23	44.75	31416	179 20:19:15	100.99	25157			
179 22:16:49	-51.56	34938	179 22:31:15	18.41	31417	179 22:04:10	74.63	25158			
179 23:49:06						179 23:49:06	48.27	25159			
180 00:02:10	-78.02	34939	180 00:16:08	-7.93	31418	180 01:34:01	21.92	25160			
180 01:47:31	-104.48	34940	180 02:01:00	-34.28	31419	180 03:18:56	-4.44	25161			
180 03:32:52	-130.95	34941	180 03:45:52	-60.62	31420	180 05:03:52	-30.80	25162			
180 05:18:12	-157.41	34942	180 05:30:44	-86.96	31421	180 06:48:47	-57.15	25163			
180 07:03:33	176.13	34943	180 07:15:37	-113.30	31422	180 08:33:43	-83.51	25164			
180 08:48:54	149.67	34944	180 09:00:29	-139.65	31423	180 10:18:38	-109.87	25165			
180 10:34:15	123.20	34945	180 10:45:21	-165.99	31424	180 12:03:34	-136.22	25166			
180 12:19:35	96.74	34946	180 12:30:13	167.66	31425	180 13:48:29	-162.58	25167			
180 14:04:56	70.28	34947	180 14:15:05	141.32	31426	180 15:33:24	171.06	25168			
180 15:50:17	43.82	34948	180 15:39:58	114.98	31427	180 17:18:20	144.71	25169			
180 17:35:38	17.35	34949	180 17:44:50	88.64	31428	180 19:03:15	118.35	25170			
180 19:20:59	-9.11	34950	180 19:29:42	62.29	31429	180 20:48:11	91.99	25171			
180 21:06:19	-35.57	34951	180 21:14:34	35.95	31430	180 22:33:06	65.64	25172			
180 22:51:40	-62.03	34952	180 22:59:26	9.61	31431						

SATELLITE S2

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

177 00:01:59	-110.64	23371
177 01:44:02	-136.15	23372
177 03:26:05	-161.67	23373
177 05:08:08	172.82	23374
177 06:50:11	147.31	23375
177 08:32:13	121.82	23376
177 10:14:16	96.31	23377
177 11:56:19	70.80	23378
177 13:38:22	45.29	23379
177 15:20:25	19.77	23380
177 17:02:28	-5.74	23381
177 18:44:31	-31.23	23382
177 20:26:34	-56.76	23383
177 22:08:37	-82.27	23384
177 23:50:40	-107.78	23385

SATELLITE S3

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

177 00:34:48	-75.50	14394
177 02:16:04	-100.82	14395
177 03:57:20	-126.13	14396
177 05:38:35	-151.44	14397
177 07:19:51	-176.76	14398
177 09:01:07	157.92	14399
177 10:42:23	132.61	14400
177 12:23:39	107.29	14401
177 14:04:55	81.97	14402
177 15:46:11	56.65	14403
177 17:27:27	31.33	14404
177 19:08:43	6.02	14405
177 20:49:58	-19.29	14406
177 22:31:14	-44.61	14407

SATELLITE S4

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

177 00:07:28	-155.11	3872
177 01:49:35	179.37	3873
177 03:31:43	153.83	3874
177 05:13:50	128.30	3875
177 06:55:57	102.78	3876
177 08:38:05	77.24	3877
177 10:20:12	51.71	3878
177 12:02:20	26.18	3879
177 13:44:27	65	3880
177 15:26:34	-24.87	3881
177 17:08:42	-50.41	3882
177 18:50:49	-75.94	3883
177 20:32:57	-101.47	3884
177 22:15:04	-127.00	3885
177 23:57:12	-152.54	3886

178 01:32:43	-133.29	23386
178 03:14:46	-158.80	23387
178 04:56:49	175.69	23388
178 06:38:52	150.18	23389
178 08:20:55	124.67	23390
178 10:02:58	99.16	23391
178 11:45:01	73.65	23392
178 13:27:04	48.14	23393
178 15:09:07	22.63	23394
178 16:51:10	-2.88	23395
178 18:33:13	-28.39	23396
178 20:15:16	-53.90	23397
178 21:57:19	-79.41	23398
178 23:39:22	-104.92	23399

178 00:12:30	-69.92	14408
178 01:53:46	-95.24	14409
178 03:35:02	-120.56	14410
178 05:16:18	-145.88	14411
178 06:57:34	-171.20	14412
178 08:38:50	163.49	14413
178 10:20:06	138.17	14414
178 12:01:21	112.86	14415
178 13:42:37	87.55	14416
178 15:23:53	62.23	14417
178 17:05:09	36.91	14418
178 18:46:25	11.59	14419
178 20:27:41	-13.73	14420
178 22:08:57	-39.04	14421
178 23:50:13	-64.36	14422

178 01:39:19	-178.06	3887
178 03:21:26	156.41	3888
178 05:03:34	130.88	3889
178 06:45:41	105.35	3890
178 08:27:49	79.81	3891
178 10:09:56	54.29	3892
178 11:52:04	28.75	3893
178 13:34:11	3.23	3894
178 15:16:18	-22.30	3895
178 16:58:26	-47.84	3896
178 18:40:33	-73.36	3897
178 20:22:41	-98.90	3898
178 22:04:48	-124.42	3899
178 23:46:55	-149.95	3900

179 01:21:25	-130.44	23400
179 03:03:28	-155.95	23401
179 04:45:31	178.54	23402
179 06:27:34	153.03	23403
179 08:09:37	127.52	23404
179 09:51:40	102.01	23405
179 11:33:43	76.50	23406
179 13:15:46	50.99	23407
179 14:57:49	25.48	23408
179 16:39:52	-0.03	23409
179 18:21:55	-25.54	23410
179 20:03:58	-51.05	23411
179 21:46:00	-76.55	23412
179 23:28:03	-102.06	23413

179 01:31:29	-89.68	14423
179 03:12:44	-114.99	14424
179 04:54:00	-140.30	14425
179 06:35:16	-165.62	14426
179 08:16:32	169.06	14427
179 09:57:48	143.74	14428
179 11:39:04	118.43	14429
179 13:20:20	93.11	14430
179 15:01:36	67.79	14431
179 16:42:52	42.47	14432
179 18:24:07	17.17	14433
179 20:05:23	-8.15	14434
179 21:46:39	-33.47	14435
179 23:27:55	-58.79	14436

179 01:29:03	-175.49	3901
179 03:11:10	158.99	3902
179 04:33:18	133.45	3903
179 06:35:25	107.93	3904
179 08:17:33	82.39	3905
179 09:59:40	56.86	3906
179 11:41:47	31.34	3907
179 13:23:55	5.80	3908
179 15:06:02	-19.73	3909
179 16:48:10	-45.26	3910
179 18:30:17	-70.79	3911
179 20:12:25	-96.33	3912
179 21:54:32	-121.85	3913
179 23:36:39	-147.38	3914

180 01:10:06	-127.57	23414
180 02:52:09	-153.08	23415
180 04:34:12	-178.59	23416
180 06:16:15	155.90	23417
180 07:58:18	130.39	23418
180 09:40:21	104.88	23419
180 11:22:24	79.37	23420
180 13:04:27	53.86	23421
180 14:46:30	28.35	23422
180 16:28:33	2.84	23423
180 18:10:36	-22.67	23424
180 19:52:39	-48.18	23425
180 21:34:42	-73.69	23426
180 23:16:45	-99.20	23427

180 01:09:11	-84.11	14437
180 02:50:27	-109.42	14438
180 04:31:43	-134.74	14439
180 06:12:59	-160.06	14440
180 07:54:15	174.62	14441
180 09:35:31	149.30	14442
180 11:16:46	124.06	14443
180 12:36:02	98.68	14444
180 14:39:18	73.36	14445
180 16:20:34	48.05	14446
180 18:01:50	22.73	14447
180 19:43:06	-2.59	14448
180 21:24:22	-27.91	14449
180 23:05:38	-53.23	14450

180 01:18:47	-172.91	3915
180 03:00:54	161.56	3916
180 04:43:02	136.02	3917
180 06:25:09	110.50	3918
180 08:07:17	84.96	3919
180 09:49:24	59.44	3920
180 11:31:31	33.91	3921
180 13:13:39	8.37	3922
180 14:55:46	-17.15	3923
180 16:37:54	-42.69	3924
180 18:20:01	-68.21	3925
180 20:02:08	-93.74	3926
180 21:44:16	-119.28	3927
180 23:26:23	-144.80	3928

SATELLITE C1							SATELLITE C2							SATELLITE C3																																																																																																															
Ascending Node Predictions							Ascending Node Predictions							Ascending Node Predictions																																																																																																															
Predicting for 183 days							Predicting for 183 days							Predicting for 183 days																																																																																																															
TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT																																																																																																									
day	hr	mn	sc	deg	dg	day	hr	mn	sc	deg	dg	day	hr	mn	sc	deg	dg	day	hr	mn	sc																																																																																																								
181 00:37:01	-88.50	34953	181 00:44:19	-16.74	31432	181 00:18:02	39.28	23173	181 02:22:22	-114.96	34954	181 02:29:11	-43.08	31433	181 02:02:57	12.92	23174	181 04:07:42	-141.42	34955	181 04:14:03	-69.42	31434	181 03:47:52	-13.43	23175	181 05:53:03	-167.88	34956	181 05:58:55	-95.77	31435	181 05:32:48	-39.79	23176	181 07:38:24	165.66	34957	181 07:43:47	-122.11	31436	181 07:17:43	-66.15	23177	181 09:23:45	139.19	34958	181 09:28:40	-148.45	31437	181 09:02:39	-92.58	23178	181 11:09:06	112.73	34959	181 11:13:32	-174.79	31438	181 10:47:34	-118.86	23179	181 12:54:26	86.27	34960	181 12:58:24	158.86	31439	181 12:32:30	-145.21	23180	181 14:39:47	59.81	34961	181 14:43:16	132.52	31440	181 14:17:25	-171.57	23181	181 16:25:08	33.34	34962	181 16:28:08	106.17	31441	181 16:02:21	162.07	23182	181 18:10:29	6.88	34963	181 18:13:01	79.83	31442	181 17:47:16	138.72	23183	181 19:55:49	-19.58	34964	181 19:57:53	53.49	31443	181 19:32:11	109.36	23184	181 21:41:10	-46.04	34965	181 21:42:45	27.15	31444	181 21:17:07	83.00	23185	181 23:26:31	-72.51	34966	181 23:27:37	.80	31445	181 23:02:02	56.65	23186
182 01:11:52	-98.97	34967	182 01:12:30	-25.54	31446	182 00:46:58	30.29	23187	182 02:57:13	-125.43	34968	182 02:57:22	-51.98	31447	182 02:31:53	3.93	23188	182 04:42:33	-151.89	34969	182 04:42:44	-78.23	31448	182 04:16:49	-22.42	23189	182 06:27:54	-178.36	34970	182 06:27:06	-104.57	31449	182 06:01:44	-48.78	23190	182 08:13:15	155.18	34971	182 08:11:58	-130.91	31450	182 07:46:39	-75.14	23191	182 09:56:36	128.72	34972	182 09:56:51	-157.25	31451	182 09:31:35	-101.49	23192	182 11:43:56	102.26	34973	182 11:41:43	176.40	31452	182 11:16:30	-127.85	23193	182 13:29:17	75.79	34974	182 13:26:35	150.06	31453	182 13:01:26	-154.21	23194	182 15:14:38	49.33	34975	182 15:11:27	123.71	31454	182 14:46:21	179.44	23195	182 16:59:59	22.87	34976	182 16:56:19	97.37	31455	182 16:31:17	153.08	23196	182 18:45:20	-3.59	34977	182 18:41:12	71.03	31456	182 18:16:12	126.72	23197	182 20:30:40	-30.05	34978	182 20:26:04	44.69	31457	182 20:01:07	100.37	23198	182 22:16:01	-56.52	34979	182 22:10:56	18.34	31458	182 21:46:03	76.01	23199				182 23:55:48	-8.00	31459	182 23:30:58	47.65	23200
183 00:01:22	-82.98	34980	183 01:40:40	-34.34	31460	183 01:15:54	21.30	23201	183 01:46:43	-109.44	34981	183 03:25:33	-60.69	31461	183 03:00:49	-5.06	23202	183 03:32:04	-135.90	34982	183 05:10:25	-87.03	31462	183 04:45:45	-31.41	23203	183 05:17:24	-162.37	34983	183 06:55:17	-113.37	31463	183 06:30:40	-57.77	23204	183 07:02:45	171.17	34984	183 08:40:09	-139.72	31464	183 08:15:36	-84.13	23205	183 08:48:06	144.71	34985	183 10:25:01	-166.06	31465	183 10:00:31	-110.48	23206	183 10:33:27	118.25	34986	183 12:09:54	167.60	31466	183 11:45:26	-136.84	23207	183 12:18:47	91.78	34987	183 13:54:46	141.25	31467	183 13:30:22	-163.20	23208	183 14:04:08	65.32	34988	183 15:39:38	114.91	31468	183 15:15:17	170.45	23209	183 15:49:29	38.86	34989	183 17:24:30	88.57	31469	183 17:00:13	144.09	23210	183 17:34:50	12.40	34990	183 19:09:23	62.23	31470	183 18:45:08	117.73	23211	183 19:20:11	-14.06	34991	183 20:54:15	35.88	31471	183 20:30:04	91.38	23212	183 21:05:31	-40.53	34992	183 22:39:07	9.54	31472	183 22:14:59	65.02	23213	183 22:50:52	-66.99	34993	183 23:59:54	38.66	23214			
184 00:36:13	-93.45	34994	184 00:23:59	-16.80	31473	184 01:44:50	12.31	23215	184 02:21:34	-119.91	34995	184 02:08:51	-43.15	31474	184 03:29:45	-14.05	23216	184 04:06:54	-146.38	34996	184 03:53:44	-69.49	31475	184 05:14:41	-40.41	23217	184 05:52:15	-172.84	34997	184 05:38:36	-95.83	31476	184 06:59:36	-66.76	23218	184 07:37:36	160.70	34998	184 07:23:28	-122.18	31477	184 08:44:32	-93.12	23219	184 09:22:57	134.24	34999	184 09:08:20	-148.52	31478	184 10:29:27	-119.48	23220	184 11:08:18	107.78	35000	184 10:53:12	-174.86	31479	184 12:14:23	-145.83	23221	184 12:53:38	81.31	35001	184 12:38:05	158.88	31480	184 13:59:18	-172.19	23222	184 14:38:59	54.85	35002	184 14:22:37	132.45	31481	184 15:44:13	161.45	23223	184 16:24:20	28.39	35003	184 16:07:49	106.11	31482	184 17:29:09	135.10	23224	184 18:09:41	1.93	35004	184 17:52:41	79.76	31483	184 19:14:04	108.74	23225	184 19:55:01	-24.54	35005	184 19:37:33	53.42	31484	184 20:59:00	82.39	23226	184 21:40:22	-51.00	35006	184 21:22:26	27.08	31485	184 22:43:55	56.03	23227	184 23:25:43	-77.46	35007	184 23:07:18	.74	31486			

West longitude is negative (-)

SATELLITE S2

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

181	00:58:48	-124.71	23428
181	02:40:51	-150.23	23429
181	04:22:54	-175.74	23430
181	06:04:57	158.75	23431
181	07:47:00	133.24	23432
181	09:29:03	107.73	23433
181	11:11:06	82.22	23434
181	12:53:09	56.71	23435
181	14:35:12	31.20	23436
181	16:17:15	5.69	23437
181	17:59:18	-19.82	23438
181	19:41:21	-45.33	23439
181	21:23:24	-70.84	23440
181	23:05:27	-96.35	23441

SATELLITE S3

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

181	00:46:54	-78.34	14451
181	02:28:09	-103.85	14452
181	04:09:25	-129.17	14453
181	05:50:41	-154.48	14454
181	07:31:57	-179.80	14455
181	09:13:13	154.88	14456
181	10:54:29	129.56	14457
181	12:35:45	104.24	14458
181	14:17:01	78.93	14459
181	15:58:17	53.61	14460
181	17:39:32	28.30	14461
181	19:20:48	2.99	14462
181	21:02:04	-22.33	14463
181	22:43:20	-47.65	14464

SATELLITE S4

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

181	01:08:31	-170.34	3929
181	02:50:38	164.14	3930
181	04:32:46	138.60	3931
181	06:14:53	113.07	3932
181	07:57:00	87.55	3933
181	09:39:08	62.01	3934
181	11:21:15	36.48	3935
181	13:03:23	10.95	3936
181	14:45:30	-14.58	3937
181	16:27:38	-40.12	3938
181	18:09:45	-65.64	3939
181	19:51:52	-91.17	3940
181	21:34:00	-116.70	3941
181	23:16:07	-142.23	3942

182	00:47:30	-121.86	23442
182	02:29:33	-147.37	23443
182	04:11:36	-172.88	23444
182	05:53:39	161.61	23445
182	07:35:42	136.10	23446
182	09:17:45	110.59	23447
182	10:59:48	85.08	23448
182	12:41:51	59.57	23449
182	14:23:53	34.07	23450
182	16:05:56	8.56	23451
182	17:47:59	-16.95	23452
182	19:30:02	-42.46	23453
182	21:12:05	-67.97	23454
182	22:54:08	-93.48	23455

182	00:24:36	-72.97	14465
182	02:05:52	-98.29	14466
182	03:47:08	-123.60	14467
182	05:28:24	-148.92	14468
182	07:09:40	-174.24	14469
182	08:50:55	160.45	14470
182	10:32:11	135.14	14471
182	12:13:27	109.82	14472
182	13:54:43	84.50	14473
182	15:35:59	59.18	14474
182	17:17:15	33.86	14475
182	18:58:31	8.55	14476
182	20:39:47	-16.77	14477
182	22:21:03	-42.09	14478

182	00:58:15	-167.77	3943
182	02:40:22	166.71	3944
182	04:22:29	141.18	3945
182	06:04:37	115.65	3946
182	07:46:44	90.12	3947
182	09:28:52	64.58	3948
182	11:10:59	39.06	3949
182	12:53:07	13.52	3950
182	14:35:14	-12.00	3951
182	16:17:21	-37.53	3952
182	17:59:29	-63.07	3953
182	19:41:36	-88.59	3954
182	21:23:44	-114.13	3955
182	23:05:51	-139.65	3956

183	00:36:11	-118.99	23456
183	02:18:14	-144.51	23457
183	04:00:17	-170.02	23458
183	05:42:20	164.47	23459
183	07:24:23	138.96	23460
183	09:06:26	113.45	23461
183	10:48:29	87.94	23462
183	12:30:32	62.43	23463
183	14:12:35	36.92	23464
183	15:54:38	11.41	23465
183	17:36:41	-14.10	23466
183	19:18:44	-39.61	23467
183	21:00:47	-65.12	23468
183	22:42:50	-90.63	23469

183	00:02:18	-67.39	14479
183	01:43:34	-92.71	14480
183	03:24:50	-118.03	14481
183	05:06:06	-143.35	14482
183	06:47:22	-168.67	14483
183	08:28:38	166.02	14484
183	10:09:54	140.70	14485
183	11:51:10	115.38	14486
183	13:32:26	90.06	14487
183	15:13:41	64.76	14488
183	16:54:57	39.44	14489
183	18:36:13	14.12	14490
183	20:17:29	-11.20	14491
183	21:58:45	-36.51	14492
183	23:40:01	-61.83	14493

183	00:47:59	-165.19	3957
183	02:30:06	169.28	3958
183	04:12:13	143.76	3959
183	05:54:21	118.22	3960
183	07:36:28	92.70	3961
183	09:18:36	67.16	3962
183	11:00:43	41.63	3963
183	12:42:50	16.11	3964
183	14:24:58	-9.43	3965
183	16:07:05	-34.96	3966
183	17:49:13	-60.49	3967
183	19:31:20	-86.02	3968
183	21:13:28	-111.56	3969
183	22:55:35	-137.08	3970

184	00:24:53	-116.14	23470
184	02:06:56	-141.63	23471
184	03:48:59	-167.16	23472
184	05:31:02	167.33	23473
184	07:13:05	141.82	23474
184	08:55:08	116.31	23475
184	10:37:11	90.80	23476
184	12:19:14	65.29	23477
184	14:01:17	39.78	23478
184	15:43:20	14.26	23479
184	17:25:23	-11.25	23480
184	19:07:26	-36.76	23481
184	20:49:29	-62.27	23482
184	22:31:32	-87.78	23483

184	01:21:17	-87.15	14494
184	03:02:33	-112.47	14495
184	04:43:49	-137.79	14496
184	06:25:05	-163.10	14497
184	08:06:20	171.59	14498
184	09:47:36	146.27	14499
184	11:28:52	120.96	14500
184	13:10:08	95.64	14501
184	14:51:24	70.32	14502
184	16:32:40	45.00	14503
184	18:13:56	19.68	14504
184	19:55:12	-5.63	14505
184	21:36:28	-30.95	14506
184	23:17:43	-56.26	14507

184	00:37:42	-162.61	3971
184	02:19:50	171.86	3972
184	04:01:57	146.33	3973
184	05:44:05	120.79	3974
184	07:26:12	95.27	3975
184	09:08:20	69.73	3976
184	10:50:27	44.21	3977
184	12:32:34	18.68	3978
184	14:14:42	-6.86	3979
184	15:56:49	-32.38	3980
184	17:38:57	-57.92	3981
184	19:21:04	-83.44	3982
184	21:03:12	-108.98	3983
184	22:45:19	-134.51	3984

SATELLITE C1
Ascending Node Predictions

Predicting for 183 days

 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

185 01:11:04	-103.92	35008
185 02:56:25	-130.38	35009
185 04:41:45	-156.85	35010
185 06:27:06	176.69	35011
185 08:12:27	150.23	35012
185 09:57:48	123.77	35013
185 11:43:08	97.30	35014
185 13:28:29	70.84	35015
185 15:13:50	44.38	35016
185 16:59:11	17.92	35017
185 18:44:32	-8.54	35018
185 20:29:52	-35.01	35019
185 22:15:13	-61.47	35020

SATELLITE C2
Ascending Node Predictions

Predicting for 183 days

 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

185 00:52:10	-25.61	31487
185 02:37:02	-51.95	31488
185 04:21:54	-78.30	31489
185 06:06:47	-104.64	31490
185 07:51:39	-130.98	31491
185 09:36:31	-157.32	31492
185 11:21:23	176.33	31493
185 13:06:16	149.99	31494
185 14:51:08	123.65	31495
185 16:36:00	97.30	31496
185 18:20:52	70.96	31497
185 20:05:44	44.62	31498
185 21:50:37	18.28	31499
185 23:35:29	-8.07	31500

SATELLITE C3
Ascending Node Predictions

Predicting for 183 days

 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

185 00:28:31	29.67	25228
185 02:13:46	3.32	25229
185 03:58:41	-23.04	25230
185 05:43:37	-49.40	25231
185 07:28:32	-75.75	25232
185 09:13:28	-102.11	25233
185 10:58:23	-128.47	25234
185 12:43:19	-154.82	25235
185 14:28:14	178.82	25236
185 16:13:10	152.46	25237
185 17:58:05	126.11	25238
185 19:43:00	99.75	25239
185 21:27:56	73.39	25240
185 23:12:51	47.04	25241

186 00:00:34	-87.93	35021
186 01:45:55	-114.39	35022
186 03:31:15	-140.86	35023
186 05:16:36	-167.32	35024
186 07:01:57	166.22	35025
186 08:47:18	139.76	35026
186 10:32:39	113.29	35027
186 12:17:59	86.83	35028
186 14:03:20	60.37	35029
186 15:48:41	33.91	35030
186 17:34:02	7.45	35031
186 19:19:22	-19.02	35032
186 21:04:43	-45.48	35033
186 22:50:04	-71.94	35034

186 01:20:21	-34.41	31501
186 03:05:13	-60.75	31502
186 04:50:05	-87.10	31503
186 06:34:58	-113.44	31504
186 08:19:50	-139.78	31505
186 10:04:42	-166.13	31506
186 11:49:34	167.53	31507
186 13:34:26	141.19	31508
186 15:19:19	114.85	31509
186 17:04:11	88.50	31510
186 18:49:03	62.16	31511
186 20:33:55	35.81	31512
186 22:18:47	9.47	31513

186 00:57:47	20.68	25242
186 02:42:42	-5.68	25243
186 04:27:38	-32.03	25244
186 06:12:33	-58.39	25245
186 07:57:28	-84.75	25246
186 09:42:24	-111.10	25247
186 11:27:19	-137.46	25248
186 13:12:15	-163.81	25249
186 14:57:10	169.83	25250
186 16:42:06	143.47	25251
186 18:27:01	117.12	25252
186 20:11:57	90.76	25253
186 21:56:52	64.40	25254
186 23:41:47	38.04	25255

187 00:35:25	-98.40	35035
187 02:20:46	-124.87	35036
187 04:06:06	-151.33	35037
187 05:51:27	-177.79	35038
187 07:36:48	155.75	35039
187 09:22:09	129.28	35040
187 11:07:29	102.82	35041
187 12:52:50	76.36	35042
187 14:38:11	49.90	35043
187 16:23:32	23.44	35044
187 18:08:53	-3.03	35045
187 19:54:13	-29.49	35046
187 21:39:34	-55.95	35047
187 23:24:55	-82.41	35048

187 00:03:40	-16.87	31514
187 01:48:32	-43.21	31515
187 03:33:24	-69.56	31516
187 05:18:16	-95.90	31517
187 07:03:08	-122.24	31518
187 08:48:01	-148.59	31519
187 10:32:53	-174.93	31520
187 12:17:45	158.73	31521
187 14:02:37	132.38	31522
187 15:47:29	106.04	31523
187 17:32:22	79.70	31524
187 19:17:14	53.36	31525
187 21:02:06	27.01	31526
187 22:46:58	.67	31527

187 01:26:43	11.69	25236
187 03:11:38	-14.67	25257
187 04:56:34	-41.02	25258
187 06:41:29	-67.38	25259
187 08:26:25	-93.74	25260
187 10:11:20	-120.09	25261
187 11:56:15	-146.45	25262
187 13:41:11	-172.81	25263
187 15:26:06	160.84	25264
187 17:11:02	134.48	25265
187 18:55:57	108.12	25266
187 20:40:53	81.77	25267
187 22:25:48	55.41	25268

188 01:10:16	-108.88	35049
188 02:55:36	-135.34	35050
188 04:40:57	-161.80	35051
188 06:26:18	171.74	35052
188 08:11:39	145.27	35053
188 09:56:59	118.81	35054
188 11:42:20	92.35	35055
188 13:27:41	65.89	35056
188 15:13:02	39.42	35057
188 16:58:23	12.96	35058
188 18:43:43	-13.50	35059
188 20:29:04	-39.96	35060
188 22:14:25	-66.42	35061
188 23:59:46	-92.89	35062

188 00:31:30	-25.68	31528
188 02:16:43	-52.02	31529
188 04:01:35	-78.36	31530
188 05:46:27	-104.70	31531
188 07:31:19	-131.05	31532
188 09:16:12	-157.39	31533
188 11:01:04	176.27	31534
188 12:45:56	149.92	31535
188 14:30:48	123.58	31536
188 16:15:40	97.24	31537
188 18:00:33	70.90	31538
188 19:45:25	44.55	31539
188 21:30:17	18.21	31540
188 23:15:09	-8.14	31541

188 00:10:44	29.06	25269
188 01:55:39	2.70	25270
188 03:40:34	-23.66	25271
188 05:25:30	-50.01	25272
188 07:10:25	-76.37	25273
188 08:55:21	-102.73	25274
188 10:40:16	-129.09	25275
188 12:25:12	-155.44	25276
188 14:10:07	178.20	25277
188 15:55:02	131.84	25278
188 17:39:58	125.49	25279
188 19:24:53	99.13	25280
188 21:09:49	72.78	25281
188 22:54:44	46.42	25282

SATELLITE S2							SATELLITE S3							SATELLITE S4							
Ascending Node Predictions							Ascending Node Predictions							Ascending Node Predictions							
Predicting for 183 days							Predicting for 183 days							Predicting for 183 days							
TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	day	hr	mn	sc	deg	day	hr	mn	sc	deg	dg	day	
day	hr	mn	sc	deg	dg	day	hr	mn	sc	deg	dg	day	hr	mn	sc	deg	dg	day	hr	mn	sc
185 00:13:35	-113.29	23484	185 00:58:59	-81.58	14508	185 00:27:26	-160.03	3985						185 02:09:34	174.43	3986					
185 01:55:38	-138.80	23485	185 02:40:15	-106.89	14509	185 03:51:41	148.91	3987						185 03:33:49	123.37	3988					
185 03:37:41	-164.31	23486	185 04:21:31	-132.21	14510	185 07:15:56	97.84	3989						185 07:44:03	177.15	14512					
185 05:19:44	170.18	23487	185 06:02:47	-157.53	14511	185 08:58:03	72.32	3990						185 11:06:35	126.52	14514					
185 07:01:47	144.67	23488	185 09:25:19	151.84	14513	185 10:40:11	46.78	3991						185 12:47:51	101.20	14515					
185 08:43:50	119.16	23489	185 14:29:06	75.89	14516	185 12:22:18	21.26	3992						185 16:10:22	50.58	14517					
185 10:25:52	93.66	23490	185 17:51:38	25.26	14518	185 17:28:41	-55.35	3995						185 19:32:54	-0.06	14519					
185 12:07:55	68.15	23491	185 21:14:10	-25.38	14520	185 19:10:48	-80.87	3996						185 22:55:26	-50.70	14521					
185 13:49:58	42.64	23492	185 22:35:03	-131.93	3998	185 20:52:55	-106.40	3997						185 00:13:35	-84.91	23497					
185 15:32:01	17.13	23493												186 00:17:10	-157.46	3999					
185 17:14:04	-8.38	23494												186 01:59:18	177.00	4000					
185 18:56:07	-33.89	23495												186 03:41:25	151.48	4001					
185 20:38:10	-59.40	23496												186 05:23:33	125.94	4002					
185 22:20:13	-84.91	23497												186 07:40:40	100.42	4003					
186 00:02:16	-110.42	23498												186 08:47:47	74.89	4004					
186 01:44:19	-135.93	23499												186 10:44:17	132.09	14522					
186 03:26:22	-161.44	23500												186 12:25:33	106.77	14529					
186 05:08:25	173.03	23501												186 14:06:49	81.46	14530					
186 06:50:28	147.54	23502												186 15:48:05	56.14	14531					
186 08:32:31	122.03	23503												186 17:29:21	30.82	14532					
186 10:14:34	96.52	23504												186 19:10:37	5.50	14533					
186 11:56:37	71.01	23505												186 20:51:53	-19.82	14534					
186 13:38:40	45.50	23506												186 22:33:08	-45.12	14535					
186 15:20:43	19.99	23507												186 00:14:24	-70.44	14536					
186 17:02:46	-5.52	23508												186 01:55:40	-95.76	14537					
186 18:44:49	-31.04	23509												186 03:36:56	-121.07	14538					
186 20:26:52	-56.55	23510												186 05:18:12	-146.39	14539					
186 22:08:55	-82.06	23511												186 06:59:28	-171.71	14540					
186 23:50:58	-107.57	23512												186 08:40:44	162.97	14541					
187 01:33:01	-133.08	23513												187 10:22:00	137.65	14542					
187 03:15:04	-158.59	23514												187 12:03:16	112.34	14543					
187 04:57:07	175.90	23515												187 13:44:31	87.03	14544					
187 06:39:10	150.39	23516												187 15:25:47	61.71	14545					
187 08:21:13	124.88	23517												187 17:07:03	36.40	14546					
187 10:03:16	99.37	23518												187 18:48:19	11.08	14547					
187 11:43:19	73.86	23519												187 20:29:35	-14.24	14548					
187 13:27:22	48.35	23520												187 22:10:51	-39.56	14549					
187 15:09:25	22.84	23521												187 23:52:07	-64.88	14550					
187 16:51:28	-2.67	23522												188 01:21:43	-130.22	23527					
187 18:33:31	-28.18	23523												188 03:03:46	-155.73	23528					
187 20:15:34	-53.69	23524												188 04:45:49	178.76	23529					
187 21:57:37	-79.20	23525												188 06:27:52	153.25	23530					
187 23:39:40	-104.71	23526												188 08:09:55	127.73	23531					
188 01:21:43	-130.22	23527												188 09:51:57	102.24	23532					
188 03:03:46	-155.73	23528												188 11:34:00	76.73	23533					
188 04:45:49	178.76	23529												188 13:16:03	51.22	23534					
188 06:27:52	153.25	23530												188 14:38:06	25.71	23535					
188 08:09:55	127.73	23531												188 16:40:09	-20	23536					
188 09:51:57	102.24	23532												188 18:22:12	-25.31	23537					
188 11:34:00	76.73	23533												188 20:04:15	-50.82	23538					
188 13:16:03	51.22	23534												188 21:46:18	-76.34	23539					
188 14:38:06	25.71	23535												188 23:28:21	-101.85	23540					
188 16:40:09	-20	23536												188 01:33:23	-90.19	14551					
188 18:22:12	-25.31	23537												188 03:14:39	-115.51	14552					
188 20:04:15	-50.82	23538												188 04:55:54	-140.82	14553					
188 21:46:18	-76.34	23539												188 06:37:10	-166.14	14554					
188 23:28:21	-101.85	23540												188 08:18:26	168.55	14555					
188 01:21:43	-130.22	23527												188 09:59:42	143.23	14556					
188 03:03:46	-155.73	23528												188 11:40:58	117.91	14557					
188 04:45:49	178.76	23529												188 13:22:14	92.59	14558					
188 06:27:52	153.25	23530												188 15:03:30	67.28	14559					
188 08:09:55	127.73	23531												188 16:44:46	41.96	14560					
188 09:51:57	102.24	23532												188 18:26:02	16.64	14561					
188 11:34:00	76.73	23533												188 20:07:17	-8.67	14562					
188 13:16:03	51.22	23534												188 21:48:33	-33.98	14563					
188 14:38:06	25.71	23535												188 23:29:49	-59.30	14564					

SATELLITE C1

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

189 01:45:06	-119.35	35063
189 03:30:27	-145.81	35064
189 05:15:48	-172.27	35065
189 07:01:09	161.26	35066
189 08:46:30	134.80	35067
189 10:31:50	108.34	35068
189 12:17:11	81.88	35069
189 14:02:32	55.41	35070
189 15:47:53	28.95	35071
189 17:33:13	2.49	35072
189 19:18:34	-23.97	35073
189 21:03:55	-50.43	35074
189 22:49:16	-76.90	35075

SATELLITE C2

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

189 01:00:01	-34.48	31542
189 02:44:54	-60.82	31543
189 04:29:46	-87.16	31544
189 06:14:38	-113.51	31545
189 07:59:30	-139.85	31546
189 09:44:22	-166.19	31547
189 11:29:15	167.46	31548
189 13:14:07	141.12	31549
189 14:58:59	114.78	31550
189 16:43:51	88.43	31551
189 18:28:43	62.09	31552
189 20:13:36	35.75	31553
189 21:58:28	9.41	31554
189 23:43:20	-16.94	31555

SATELLITE C3

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

189 00:39:40	20.06	23283
189 02:24:35	-6.29	23284
189 04:09:31	-32.65	23285
189 05:34:26	-59.01	23286
189 07:39:21	-85.36	23287
189 09:24:17	-111.72	23288
189 11:09:12	-138.08	23289
189 12:54:08	-164.43	23290
189 14:39:03	169.21	23291
189 16:23:59	142.86	23292
189 18:08:54	116.50	23293
189 19:53:49	90.14	23294
189 21:38:45	63.79	23295
189 23:23:40	37.43	23296

190 00:34:37	-103.36	35076
190 02:19:57	-129.82	35077
190 04:05:18	-156.28	35078
190 05:50:39	177.25	35079
190 07:36:00	150.79	35080
190 09:21:20	124.33	35081
190 11:06:41	97.87	35082
190 12:52:02	71.40	35083
190 14:37:23	44.94	35084
190 16:22:44	18.48	35085
190 18:08:04	-7.98	35086
190 19:53:25	-34.44	35087
190 21:38:46	-60.91	35088
190 23:24:07	-87.37	35089

190 01:28:12	-43.28	31556
190 03:13:04	-69.63	31557
190 04:57:57	-95.97	31558
190 06:42:49	-122.31	31559
190 08:27:41	-148.65	31560
190 10:12:33	-175.00	31561
190 11:57:25	158.66	31562
190 13:42:18	132.32	31563
190 15:27:10	105.97	31564
190 17:12:02	79.63	31565
190 18:56:54	53.29	31566
190 20:41:46	26.94	31567
190 22:26:39	.60	31568

190 01:08:36	11.07	23297
190 02:53:31	-15.29	23298
190 04:38:27	-41.64	23299
190 06:23:22	-68.00	23300
190 08:08:18	-94.35	23301
190 09:53:13	-120.71	23302
190 11:38:08	-147.07	23303
190 13:23:04	-173.42	23304
190 15:07:59	160.22	23305
190 16:52:55	133.86	23306
190 18:37:50	107.51	23307
190 20:22:46	81.15	23308
190 22:07:41	54.79	23309
190 23:52:36	28.44	23310

191 01:09:27	-113.83	35090
191 02:54:48	-140.29	35091
191 04:40:09	-166.76	35092
191 06:25:30	166.78	35093
191 08:10:51	140.32	35094
191 09:56:11	113.86	35095
191 11:41:32	87.39	35096
191 13:26:53	60.93	35097
191 15:12:14	34.47	35098
191 16:57:34	8.01	35099
191 18:42:55	-18.45	35100
191 20:28:16	-44.92	35101
191 22:13:37	-71.38	35102
191 23:58:57	-97.84	35103

191 00:11:31	-25.74	31569
191 01:56:23	-52.08	31570
191 03:41:15	-78.43	31571
191 05:26:07	-104.77	31572
191 07:11:00	-131.11	31573
191 08:55:52	-157.46	31574
191 10:40:44	176.20	31575
191 12:25:36	149.86	31576
191 14:10:28	123.51	31577
191 15:55:21	97.17	31578
191 17:40:13	70.83	31579
191 19:25:05	44.48	31580
191 21:09:57	18.14	31581
191 22:54:49	-8.20	31582

191 01:37:32	2.08	23311
191 03:22:27	-24.28	23312
191 05:07:23	-50.63	23313
191 06:52:18	-76.99	23314
191 08:37:14	-103.34	23315
191 10:22:09	-129.70	23316
191 12:07:05	-156.06	23317
191 13:52:00	177.58	23318
191 15:36:55	151.23	23319
191 17:21:51	124.87	23320
191 19:06:46	98.51	23321
191 20:51:42	72.16	23322
191 22:36:37	45.80	23323

192 01:44:18	-124.30	35104
192 03:29:39	-150.77	35105
192 05:15:00	-177.23	35106
192 07:00:21	156.31	35107
192 08:45:41	129.85	35108
192 10:31:02	103.38	35109
192 12:16:23	76.92	35110
192 14:01:44	50.46	35111
192 15:47:04	24.00	35112
192 17:32:25	-2.46	35113
192 19:17:46	-28.93	35114
192 21:03:07	-55.39	35115
192 22:48:28	-81.85	35116

192 00:39:42	-34.54	31583
192 02:24:34	-60.89	31584
192 04:09:26	-87.23	31585
192 05:54:18	-113.57	31586
192 07:39:11	-139.92	31587
192 09:24:03	-166.26	31588
192 11:08:55	167.40	31589
192 12:53:47	141.05	31590
192 14:38:39	114.71	31591
192 16:23:32	88.37	31592
192 18:08:24	62.03	31593
192 19:53:16	35.68	31594
192 21:38:08	9.34	31595
192 23:23:00	-17.01	31596

192 00:21:33	19.45	23324
192 02:06:28	-6.91	23325
192 03:51:24	-33.27	23326
192 05:36:19	-59.62	23327
192 07:21:14	-85.98	23328
192 09:06:10	-112.34	23329
192 10:51:05	-138.69	23330
192 12:36:01	-165.05	23331
192 14:20:56	168.59	23332
192 16:05:52	142.24	23333
192 17:50:47	115.88	23334
192 19:35:42	89.52	23335
192 21:20:38	63.17	23336
192 23:05:33	36.81	23337

SATELLITE S2				SATELLITE S3				SATELLITE S4				
Ascending Node Predictions				Ascending Node Predictions				Ascending Node Predictions				
Predicting for 183 days				Predicting for 183 days				Predicting for 183 days				
TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	day hr mn sc	deg dg	day hr mn sc	deg dg
189 01:10:24	-127.36	23541	189 01:11:05	-84.62	14563	189 01:28:29	-173.26	4042				
189 02:52:27	-152.87	23542	189 02:52:21	-109.94	14566	189 03:10:37	159.20	4043				
189 04:34:30	-178.38	23543	189 04:33:37	-135.26	14567	189 04:52:44	133.68	4044				
189 06:16:33	156.11	23544	189 06:14:53	-160.57	14568	189 06:34:52	108.14	4045				
189 07:58:36	130.60	23545	189 07:56:09	174.11	14569	189 08:16:59	82.61	4046				
189 09:40:39	105.09	23546	189 09:37:25	148.79	14570	189 09:59:07	57.07	4047				
189 11:22:42	79.58	23547	189 11:18:41	123.47	14571	189 11:41:14	31.55	4048				
189 13:04:45	54.07	23548	189 12:59:56	98.17	14572	189 13:23:21	6.03	4049				
189 14:46:48	28.56	23549	189 14:41:12	72.85	14573	189 15:05:29	-19.51	4050				
189 16:28:51	3.03	23550	189 16:22:28	47.53	14574	189 16:47:36	-45.04	4051				
189 18:10:54	-22.46	23551	189 18:03:44	22.21	14575	189 18:29:44	-70.58	4052				
189 19:52:57	-47.97	23552	189 19:45:00	-3.10	14576	189 20:11:51	-96.10	4053				
189 21:35:00	-73.48	23553	189 21:26:16	-28.42	14577	189 21:53:58	-121.62	4054				
189 23:17:03	-98.99	23554	189 23:07:32	-53.74	14578	189 23:36:06	-147.16	4055				
190 00:39:06	-124.50	23555	190 00:48:48	-79.06	14579	190 01:18:13	-172.69	4056				
190 02:41:09	-150.01	23556	190 02:30:04	-104.38	14580	190 03:00:21	161.77	4057				
190 04:23:12	-175.52	23557	190 04:11:19	-129.68	14581	190 04:42:28	136.25	4058				
190 06:05:15	158.97	23558	190 05:52:35	-155.00	14582	190 06:24:36	110.71	4059				
190 07:47:18	133.46	23559	190 07:33:51	179.68	14583	190 08:06:43	85.19	4060				
190 09:29:21	107.95	23560	190 09:15:07	154.37	14584	190 09:48:50	59.66	4061				
190 11:11:24	82.44	23561	190 10:56:23	129.05	14585	190 11:30:58	34.12	4062				
190 12:53:27	56.92	23562	190 12:37:39	103.73	14586	190 13:13:05	8.60	4063				
190 14:35:30	31.41	23563	190 14:18:55	78.41	14587	190 14:55:13	-16.94	4064				
190 16:17:33	5.90	23564	190 16:00:11	53.09	14588	190 16:37:20	-42.46	4065				
190 17:59:36	-19.61	23565	190 17:41:27	27.78	14589	190 18:19:28	-68.00	4066				
190 19:41:39	-45.12	23566	190 19:22:42	2.47	14590	190 20:01:35	-93.53	4067				
190 21:23:42	-70.63	23567	190 21:03:58	-22.85	14591	190 21:43:42	-119.05	4068				
190 23:05:45	-96.14	23568	190 22:45:14	-48.16	14592	190 23:25:50	-144.59	4069				
191 00:47:48	-121.63	23569	191 00:26:30	-73.48	14593	191 01:07:57	-170.11	4070				
191 02:29:51	-147.16	23570	191 02:07:46	-98.80	14594	191 02:50:05	164.35	4071				
191 04:11:54	-172.67	23571	191 03:49:02	-124.12	14595	191 04:32:12	138.02	4072				
191 05:53:57	161.82	23572	191 05:30:18	-149.44	14596	191 06:14:19	113.30	4073				
191 07:36:00	136.31	23573	191 07:11:34	-174.75	14597	191 07:56:27	87.76	4074				
191 09:18:03	110.80	23574	191 08:52:50	159.93	14598	191 09:38:34	62.24	4075				
191 11:00:06	85.29	23575	191 10:34:05	134.62	14599	191 11:20:42	36.70	4076				
191 12:42:09	59.78	23576	191 12:15:21	109.30	14600	191 13:02:49	11.17	4077				
191 14:24:12	34.27	23577	191 13:56:37	83.99	14601	191 14:48:57	-14.37	4078				
191 16:06:14	8.77	23578	191 15:37:53	58.67	14602	191 16:27:04	-39.89	4079				
191 17:48:17	-16.74	23579	191 17:19:09	33.35	14603	191 18:09:11	-65.41	4080				
191 19:30:20	-42.25	23580	191 19:00:23	8.03	14604	191 19:51:19	-90.95	4081				
191 21:12:23	-67.76	23581	191 20:41:41	-17.28	14605	191 21:33:26	-116.48	4082				
191 22:54:26	-93.27	23582	191 22:22:57	-42.60	14606	191 23:15:34	-142.02	4083				
192 00:36:29	-118.78	23583	192 00:04:13	-67.92	14607	192 00:57:41	-167.54	4084				
192 02:18:32	-144.29	23584	192 01:45:29	-93.24	14608	192 02:39:49	166.92	4085				
192 04:00:35	-169.80	23585	192 03:26:44	-118.54	14609	192 04:21:56	141.40	4086				
192 05:42:38	164.69	23586	192 05:08:00	-143.86	14610	192 06:04:03	115.87	4087				
192 07:24:41	139.18	23587	192 06:49:16	-169.18	14611	192 07:46:11	90.33	4088				
192 09:06:44	113.67	23588	192 08:30:32	165.50	14612	192 09:28:18	64.81	4089				
192 10:48:47	88.16	23589	192 10:11:48	140.18	14613	192 11:10:26	39.27	4090				
192 12:30:50	62.65	23590	192 11:53:04	114.87	14614	192 12:52:33	13.75	4091				
192 14:12:53	37.14	23591	192 13:34:20	89.55	14615	192 14:34:40	-11.78	4092				
192 15:54:56	11.63	23592	192 15:15:36	64.23	14616	192 16:16:48	-37.32	4093				
192 17:36:59	-13.88	23593	192 16:56:52	38.91	14617	192 17:58:55	-62.84	4094				
192 19:19:02	-39.40	23594	192 18:38:07	13.61	14618	192 19:41:03	-88.38	4095				
192 21:01:05	-64.91	23595	192 20:19:23	-11.71	14619	192 21:23:10	-113.90	4096				
192 22:43:08	-90.42	23596	192 22:00:39	-37.03	14620	192 23:05:18	-139.44	4097				
			192 23:41:55	-62.35	14621							

SATELLITE C1

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

193 00:33:48 -108.31 35117
 193 02:19:09 -134.78 35118
 193 04:04:30 -161.24 35119
 193 05:49:51 172.30 35120
 193 07:35:11 145.84 35121
 193 09:20:32 119.37 35122
 193 11:05:53 92.91 35123
 193 12:51:14 66.45 35124
 193 14:36:35 39.99 35125
 193 16:21:55 13.53 35126
 193 18:07:16 -12.94 35127
 193 19:52:37 -39.40 35128
 193 21:37:58 -65.86 35129
 193 23:23:18 -92.32 35130

SATELLITE C2

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

193 01:07:53 -43.35 31597
 193 02:52:45 -69.69 31598
 193 04:37:37 -96.03 31599
 193 06:22:29 -122.38 31600
 193 08:07:21 -148.72 31601
 193 09:52:14 -175.06 31602
 193 11:37:06 -158.59 31603
 193 13:21:58 -132.25 31604
 193 15:06:50 105.91 31605
 193 16:51:42 79.56 31606
 193 18:36:35 53.22 31607
 193 20:21:27 26.88 31608
 193 22:06:19 54.54 31609
 193 23:51:11 -25.81 31610

SATELLITE C3

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

193 00:50:29 10.45 25338
 193 02:35:24 -15.90 25339
 193 04:20:20 -42.26 25340
 193 06:05:15 -68.62 25341
 193 07:50:11 -94.97 25342
 193 09:35:06 -121.33 25343
 193 11:20:01 -147.69 25344
 193 13:04:57 -174.04 25345
 193 14:49:52 159.60 25346
 193 16:34:48 133.25 25347
 193 18:19:43 106.89 25348
 193 20:04:39 80.53 25349
 193 21:49:34 54.18 25350
 193 23:34:29 27.82 25351

194 01:08:39 -118.79 35131
 194 02:54:00 -145.25 35132
 194 04:39:21 -171.71 35133
 194 06:24:41 161.83 35134
 194 08:10:02 135.36 35135
 194 09:55:23 108.90 35136
 194 11:40:44 82.44 35137
 194 13:26:05 55.98 35138
 194 15:11:25 29.52 35139
 194 16:56:46 3.05 35140
 194 18:42:07 -23.41 35141
 194 20:27:28 -49.87 35142
 194 22:12:48 -76.33 35143
 194 23:58:09 -102.80 35144

194 01:36:03 -52.15 31611
 194 03:20:56 -78.49 31612
 194 05:05:48 -104.84 31613
 194 06:50:40 -131.18 31614
 194 08:35:32 -157.52 31615
 194 10:20:24 176.13 31616
 194 12:05:17 149.79 31617
 194 13:50:09 123.45 31618
 194 15:35:01 97.19 31619
 194 17:19:53 70.76 31620
 194 19:04:45 44.42 31621
 194 20:49:38 18.08 31622
 194 22:34:30 -8.27 31623

194 01:19:25 1.46 25352
 194 03:04:20 -24.90 25353
 194 04:49:16 -51.25 25354
 194 06:34:11 -77.61 25355
 194 08:19:07 -103.96 25356
 194 10:04:02 -130.32 25357
 194 11:48:58 -156.68 25358
 194 13:33:53 176.97 25359
 194 15:18:48 150.61 25360
 194 17:03:44 124.25 25361
 194 18:48:39 97.90 25362
 194 20:33:35 71.54 25363
 194 22:18:30 45.18 25364

195 01:43:30 -129.26 35145
 195 03:28:51 -155.72 35146
 195 05:14:12 177.82 35147
 195 06:59:32 151.35 35148
 195 08:44:53 124.89 35149
 195 10:30:14 98.43 35150
 195 12:15:35 71.97 35151
 195 14:00:55 45.51 35152
 195 15:46:16 19.04 35153
 195 17:31:37 -7.42 35154
 195 19:16:58 -33.88 35155
 195 21:02:18 -60.34 35156
 195 22:47:39 -86.81 35157

195 00:19:22 -34.61 31624
 195 02:04:14 -60.95 31625
 195 03:49:06 -87.30 31626
 195 05:33:59 -113.64 31627
 195 07:18:51 -139.98 31628
 195 09:03:43 -166.33 31629
 195 10:48:35 167.33 31630
 195 12:33:27 140.99 31631
 195 14:18:20 114.65 31632
 195 16:03:12 88.30 31633
 195 17:48:04 61.96 31634
 195 19:32:56 35.61 31635
 195 21:17:48 9.27 31636
 195 23:02:41 -17.07 31637

195 00:03:26 18.83 25365
 195 01:48:21 -7.53 25366
 195 03:33:17 -33.88 25367
 195 05:18:12 -60.24 25368
 195 07:03:07 -86.60 25369
 195 08:48:03 -112.95 25370
 195 10:32:58 -139.31 25371
 195 12:17:54 -165.67 25372
 195 14:02:49 167.97 25373
 195 15:47:45 141.62 25374
 195 17:32:40 115.26 25375
 195 19:17:35 88.90 25376
 195 21:02:31 62.55 25377
 195 22:47:26 36.19 25378

196 00:33:00 -113.27 35158
 196 02:18:21 -139.73 35159
 196 04:03:42 -166.19 35160
 196 05:49:02 167.35 35161
 196 07:34:23 140.88 35162
 196 09:19:44 114.42 35163
 196 11:05:05 87.96 35164
 196 12:50:25 61.50 35165
 196 14:35:46 35.03 35166
 196 16:21:07 8.57 35167
 196 18:06:28 -17.89 35168
 196 19:51:49 -44.35 35169
 196 21:37:09 -70.82 35170
 196 23:22:30 -97.28 35171

196 00:47:33 -43.41 31638
 196 02:32:25 -69.76 31639
 196 04:17:17 -96.10 31640
 196 06:02:09 -122.44 31641
 196 07:47:02 -148.79 31642
 196 09:31:54 -175.13 31643
 196 11:16:46 158.53 31644
 196 13:01:38 132.18 31645
 196 14:46:30 105.84 31646
 196 16:31:23 79.50 31647
 196 18:16:15 53.16 31648
 196 20:01:07 26.81 31649
 196 21:45:59 47 31650
 196 23:30:51 -25.88 31651

196 00:32:22 9.84 25379
 196 02:17:17 -16.52 25380
 196 04:02:13 -42.88 25381
 196 05:47:08 -69.23 25382
 196 07:32:04 -95.59 25383
 196 09:16:59 -121.95 25384
 196 11:01:54 -148.30 25385
 196 12:46:50 -174.66 25386
 196 14:31:45 158.98 25387
 196 16:16:41 132.63 25388
 196 18:01:36 104.27 25389
 196 19:46:32 79.92 25390
 196 21:31:27 53.56 25391
 196 23:16:22 27.20 25392

SATELLITE S2

Ascending Node Predictions
 Predicting for 183 days
 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

193 00:25:11	-115.93	23597
193 02:07:14	-141.44	23598
193 03:49:17	-166.95	23599
193 05:31:20	167.54	23600
193 07:13:23	142.03	23601
193 08:55:26	116.52	23602
193 10:37:29	91.01	23603
193 12:19:32	65.50	23604
193 14:01:35	39.99	23605
193 15:43:38	14.48	23606
193 17:25:41	-11.03	23607
193 19:07:44	-36.54	23608
193 20:49:47	-62.05	23609
193 22:31:50	-87.56	23610

SATELLITE S3

Ascending Node Predictions
 Predicting for 183 days
 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

193 01:23:11	-87.66	14622
193 03:04:27	-112.98	14623
193 04:45:43	-138.30	14624
193 06:26:59	-163.62	14625
193 08:08:15	171.06	14626
193 09:49:30	145.76	14627
193 11:30:46	120.44	14628
193 13:12:02	95.12	14629
193 14:53:18	69.81	14630
193 16:34:34	44.49	14631
193 18:15:50	19.17	14632
193 19:57:06	-6.15	14633
193 21:38:22	-31.47	14634
193 23:19:38	-56.78	14635

SATELLITE S4

Ascending Node Predictions
 Predicting for 183 days
 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

193 00:47:25	-164.97	4098
193 02:29:32	169.51	4099
193 04:11:40	143.97	4100
193 05:53:47	118.45	4101
193 07:35:55	92.91	4102
193 09:18:02	67.38	4103
193 11:00:10	41.65	4104
193 12:42:17	16.32	4105
193 14:24:24	-9.20	4106
193 16:06:32	-34.74	4107
193 17:48:39	-60.27	4108
193 19:30:47	-85.81	4109
193 21:12:54	-111.33	4110
193 22:55:01	-136.85	4111

194 00:13:53	-113.07	23611
194 01:55:56	-138.58	23612
194 03:37:59	-164.09	23613
194 05:20:02	170.40	23614
194 07:02:05	144.89	23615
194 08:44:08	119.38	23616
194 10:26:11	93.87	23617
194 12:08:14	68.35	23618
194 13:50:17	42.84	23619
194 15:32:20	17.33	23620
194 17:14:23	-8.18	23621
194 18:56:26	-33.69	23622
194 20:38:29	-59.20	23623
194 22:20:32	-84.71	23624

194 01:00:53	-82.09	14636
194 02:42:09	-107.41	14637
194 04:23:25	-132.72	14638
194 06:04:41	-158.04	14639
194 07:45:57	176.64	14640
194 09:27:13	151.32	14641
194 11:08:29	126.00	14642
194 12:49:45	100.69	14643
194 14:31:01	75.37	14644
194 16:12:17	50.05	14645
194 17:53:32	24.75	14646
194 19:34:48	-5.57	14647
194 21:16:04	-25.89	14648
194 22:57:20	-51.21	14649

194 00:37:09	-162.39	4112
194 02:19:16	172.08	4113
194 04:01:24	146.54	4114
194 05:43:31	121.02	4115
194 07:25:39	95.48	4116
194 09:07:46	69.96	4117
194 10:49:53	44.43	4118
194 12:32:01	18.89	4119
194 14:14:08	-6.63	4120
194 15:56:16	-32.17	4121
194 17:38:23	-57.69	4122
194 19:20:31	-83.23	4123
194 21:02:38	-108.76	4124
194 22:44:45	-134.28	4125

195 00:02:35	-110.22	23625
195 01:44:37	-135.71	23626
195 03:26:40	-161.23	23627
195 05:08:43	173.26	23628
195 06:50:46	147.75	23629
195 08:32:49	122.24	23630
195 10:14:52	96.73	23631
195 11:56:55	71.22	23632
195 13:38:58	45.71	23633
195 15:21:01	20.20	23634
195 17:03:04	-5.31	23635
195 18:45:07	-30.82	23636
195 20:27:10	-56.33	23637
195 22:09:13	-81.84	23638
195 23:51:16	-107.35	23639

195 00:38:36	-76.53	14650
195 02:19:52	-101.84	14651
195 04:01:08	-127.16	14652
195 05:42:24	-152.48	14653
195 07:23:40	-177.80	14654
195 09:04:55	156.90	14655
195 10:46:11	131.58	14656
195 12:27:27	106.26	14657
195 14:08:43	80.94	14658
195 15:49:59	55.62	14659
195 17:31:15	30.31	14660
195 19:12:31	4.99	14661
195 20:53:47	-20.33	14662
195 22:35:03	-45.65	14663

195 00:26:53	-159.82	4126
195 02:09:00	174.66	4127
195 03:51:08	149.12	4128
195 05:33:15	123.59	4129
195 07:15:22	98.07	4130
195 08:57:30	72.53	4131
195 10:39:37	47.01	4132
195 12:21:45	21.47	4133
195 14:03:52	-4.96	4134
195 15:46:00	-29.60	4135
195 17:28:07	-55.12	4136
195 19:10:14	-80.64	4137
195 20:52:22	-106.18	4138
195 22:34:29	-131.71	4139

196 01:33:19	-132.86	23640
196 03:15:22	-158.37	23641
196 04:57:25	176.12	23642
196 06:39:28	150.61	23643
196 08:21:31	125.10	23644
196 10:03:34	99.59	23645
196 11:45:37	74.08	23646
196 13:27:40	48.57	23647
196 15:09:43	23.06	23648
196 16:51:46	-2.45	23649
196 18:33:49	-27.96	23650
196 20:15:52	-53.48	23651
196 21:57:55	-78.99	23652
196 23:39:58	-104.50	23653

196 00:16:18	-70.95	14664
196 01:57:34	-96.27	14665
196 03:38:50	-121.59	14666
196 05:20:06	-146.91	14667
196 07:01:22	-172.22	14668
196 08:42:38	162.46	14669
196 10:23:54	137.14	14670
196 12:05:10	111.82	14671
196 13:46:26	86.50	14672
196 15:27:41	61.20	14673
196 17:08:57	35.88	14674
196 18:50:13	10.56	14675
196 20:31:29	-14.75	14676
196 22:12:45	-40.07	14677
196 23:54:01	-65.39	14678

196 00:16:37	-157.25	4140
196 01:58:44	177.23	4141
196 03:40:52	151.69	4142
196 05:22:59	126.17	4143
196 07:05:06	100.64	4144
196 08:47:14	75.10	4145
196 10:29:21	49.58	4146
196 12:11:29	24.04	4147
196 13:33:36	-1.48	4148
196 15:35:43	-27.01	4149
196 17:17:51	-52.55	4150
196 18:39:58	-78.07	4151
196 20:42:06	-103.61	4152
196 22:24:13	-129.13	4153

SATELLITE C1
Ascending Node Predictions

Predicting for 183 days

 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

197 01:07:51 -123.74 35172
 197 02:53:12 -150.20 35173
 197 04:38:32 -176.66 35174
 197 06:23:53 156.87 35175
 197 08:09:14 130.41 35176
 197 09:54:35 103.95 35177
 197 11:39:56 77.49 35178
 197 13:25:16 51.02 35179
 197 15:10:37 24.56 35180
 197 16:55:58 -1.90 35181
 197 18:41:19 -28.36 35182
 197 20:26:39 -54.83 35183
 197 22:12:00 -81.29 35184
 197 23:57:21 -107.75 35185

SATELLITE C2
Ascending Node Predictions

Predicting for 183 days

 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

197 01:15:44 -52.22 31652
 197 03:00:36 -78.56 31653
 197 04:45:28 -104.90 31654
 197 06:30:20 -131.25 31655
 197 08:15:12 -157.59 31656
 197 10:00:05 176.07 31657
 197 11:44:57 149.72 31658
 197 13:29:49 123.38 31659
 197 15:14:41 97.04 31660
 197 16:59:33 70.69 31661
 197 18:44:26 44.35 31662
 197 20:29:18 18.01 31663
 197 22:14:10 -8.33 31664
 197 23:59:02 -34.68 31665

SATELLITE C3
Ascending Node Predictions

Predicting for 183 days

 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

197 01:01:18 .84 25393
 197 02:46:13 -25.51 25394
 197 04:31:09 -51.87 25395
 197 06:16:04 -78.23 25396
 197 08:01:00 -104.58 25397
 197 09:45:55 -130.94 25398
 197 11:30:51 -157.29 25399
 197 13:15:46 176.35 25400
 197 15:00:41 149.99 25401
 197 16:45:37 123.64 25402
 197 18:30:32 97.28 25403
 197 20:15:28 70.92 25404
 197 22:00:23 44.57 25405
 197 23:45:19 18.21 25406

198 01:42:42 -134.21 35186
 198 03:28:02 -160.67 35187
 198 05:13:23 172.86 35188
 198 06:58:44 146.40 35189
 198 08:44:05 119.94 35190
 198 10:29:26 93.48 35191
 198 12:14:46 67.01 35192
 198 14:00:07 40.55 35193
 198 15:45:28 14.09 35194
 198 17:30:49 -12.37 35195
 198 19:16:09 -38.84 35196
 198 21:01:30 -65.30 35197
 198 22:46:51 -91.76 35198

198 01:43:35 -61.02 31666
 198 03:28:47 -87.36 31667
 198 05:13:39 -113.71 31668
 198 06:58:31 -140.05 31669
 198 08:43:23 -166.39 31670
 198 10:28:16 167.27 31671
 198 12:13:08 140.92 31672
 198 13:58:00 114.58 31673
 198 15:42:52 88.23 31674
 198 17:27:44 61.89 31675
 198 19:12:37 35.55 31676
 198 20:57:29 9.21 31677
 198 22:42:21 -17.14 31678

198 01:30:14 -8.15 25407
 198 03:15:10 -34.50 25408
 198 05:00:05 -60.86 25409
 198 06:45:00 -87.22 25410
 198 08:29:36 -113.57 25411
 198 10:14:51 -139.93 25412
 198 11:59:47 -166.29 25413
 198 13:44:42 167.36 25414
 198 15:29:38 141.00 25415
 198 17:14:33 114.64 25416
 198 18:59:28 88.29 25417
 198 20:44:24 61.93 25418
 198 22:29:19 35.57 25419

199 00:32:12 -118.22 35199
 199 02:17:33 -144.68 35200
 199 04:02:53 -171.15 35201
 199 05:48:14 162.39 35202
 199 07:33:35 135.93 35203
 199 09:18:56 109.47 35204
 199 11:04:16 83.00 35205
 199 12:49:37 56.54 35206
 199 14:34:58 30.08 35207
 199 16:20:19 3.62 35208
 199 18:05:39 -22.85 35209
 199 19:51:00 -49.31 35210
 199 21:36:21 -75.77 35211
 199 23:21:42 -102.23 35212

199 00:27:13 -43.48 31679
 199 02:12:05 -69.82 31680
 199 03:56:58 -96.17 31681
 199 05:41:50 -122.51 31682
 199 07:26:42 -148.85 31683
 199 09:11:34 -175.20 31684
 199 10:56:26 158.46 31685
 199 12:41:19 132.12 31686
 199 14:26:11 105.78 31687
 199 16:11:03 79.43 31688
 199 17:55:55 53.09 31689
 199 19:40:47 26.74 31690
 199 21:25:40 -.40 31691
 199 23:10:32 -25.94 31692

199 00:14:15 9.22 25420
 199 01:59:10 -17.14 25421
 199 03:44:06 -43.49 25422
 199 05:29:01 -69.85 25423
 199 07:13:57 -96.21 25424
 199 08:58:52 -122.56 25425
 199 10:43:47 -148.92 25426
 199 12:28:43 -175.28 25427
 199 14:13:38 158.36 25428
 199 15:58:34 132.01 25429
 199 17:43:29 105.65 25430
 199 19:28:25 79.30 25431
 199 21:13:20 52.94 25432
 199 22:58:15 26.58 25433

200 01:07:03 -128.69 35213
 200 02:52:23 -155.16 35214
 200 04:37:44 178.38 35215
 200 06:23:05 131.92 35216
 200 08:08:26 125.46 35217
 200 09:53:46 98.99 35218
 200 11:39:07 72.53 35219
 200 13:24:28 46.07 35220
 200 15:09:49 19.61 35221
 200 16:55:10 -6.85 35222
 200 18:40:30 -33.32 35223
 200 20:25:51 -59.78 35224
 200 22:11:12 -86.24 35225
 200 23:56:33 -112.70 35226

200 00:35:24 -52.28 31693
 200 02:40:16 -78.63 31694
 200 04:25:08 -104.97 31695
 200 06:10:01 -131.31 31696
 200 07:54:53 -157.66 31697
 200 09:39:45 176.00 31698
 200 11:24:37 149.66 31699
 200 13:09:29 123.31 31700
 200 14:54:22 96.97 31701
 200 16:39:14 70.63 31702
 200 18:24:06 44.29 31703
 200 20:08:58 17.94 31704
 200 21:53:50 -8.40 31705
 200 23:38:43 -34.74 31706

200 00:43:11 .23 25434
 200 02:28:06 -26.13 25435
 200 04:13:02 -52.49 25436
 200 05:57:57 -78.84 25437
 200 07:42:53 -105.20 25438
 200 09:27:48 -131.56 25439
 200 11:12:44 -157.91 25440
 200 12:57:39 175.73 25441
 200 14:42:34 149.37 25442
 200 16:27:30 123.02 25443
 200 18:12:25 96.66 25444
 200 19:57:21 70.31 25445
 200 21:42:16 43.95 25446
 200 23:27:12 17.59 25447

SATELLITE S2

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

197 01:22:01	-130.01	23654
197 03:04:04	-155.52	23655
197 04:46:07	178.97	23656
197 06:28:10	153.46	23657
197 08:10:13	127.95	23658
197 09:52:16	102.44	23659
197 11:34:19	76.93	23660
197 13:16:22	51.42	23661
197 14:58:25	23.91	23662
197 16:40:28	-40	23663
197 18:22:31	-25.11	23664
197 20:04:34	-50.62	23665
197 21:46:37	-76.13	23666
197 23:28:40	-101.64	23667

SATELLITE S3

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

197 01:35:17	-90.71	14679
197 03:16:33	-116.03	14680
197 04:57:49	-141.34	14681
197 06:39:05	-166.66	14682
197 08:20:20	168.03	14683
197 10:01:36	142.72	14684
197 11:42:52	117.40	14685
197 13:24:08	92.08	14686
197 15:05:24	66.76	14687
197 16:46:40	41.44	14688
197 18:27:56	16.13	14689
197 20:09:12	-9.19	14690
197 21:50:28	-34.51	14691
197 23:31:43	-59.81	14692

SATELLITE S4

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

197 00:06:21	-154.67	4154
197 01:48:28	179.80	4155
197 03:30:35	154.28	4156
197 05:12:43	128.74	4157
197 06:54:50	103.22	4158
197 08:36:58	77.68	4159
197 10:19:05	52.15	4160
197 12:01:13	26.61	4161
197 13:43:20	1.09	4162
197 15:25:27	-24.43	4163
197 17:07:35	-49.97	4164
197 18:49:42	-75.50	4165
197 20:31:50	-101.04	4166
197 22:13:57	-126.56	4167
197 23:56:04	-152.09	4168

198 01:10:43	-127.15	23668
198 02:52:46	-152.66	23669
198 04:34:49	-178.17	23670
198 06:16:52	156.32	23671
198 07:58:55	130.81	23672
198 09:40:58	105.30	23673
198 11:23:01	79.79	23674
198 13:05:04	54.28	23675
198 14:47:07	28.76	23676
198 16:29:10	3.25	23677
198 18:11:13	-22.26	23678
198 19:53:15	-47.75	23679
198 21:35:18	-73.26	23680
198 23:17:21	-98.77	23681

198 01:12:59	-89.13	14693
198 02:54:15	-110.45	14694
198 04:35:31	-135.77	14695
198 06:16:47	-161.09	14696
198 07:58:03	173.60	14697
198 09:39:19	148.28	14698
198 11:20:35	122.96	14699
198 13:01:51	97.64	14700
198 14:43:06	72.34	14701
198 16:24:22	47.02	14702
198 18:05:38	21.70	14703
198 19:46:54	-3.62	14704
198 21:28:10	-28.94	14705
198 23:09:26	-54.25	14706

198 01:38:12	-177.62	4169
198 03:20:19	156.85	4170
198 05:02:27	131.31	4171
198 06:44:34	105.79	4172
198 08:26:42	80.25	4173
198 10:08:49	54.73	4174
198 11:50:56	29.20	4175
198 13:33:04	3.66	4176
198 15:15:11	-21.86	4177
198 16:57:19	-47.40	4178
198 18:39:26	-72.92	4179
198 20:21:34	-98.46	4180
198 22:03:41	-123.99	4181
198 23:45:48	-149.31	4182

199 00:59:24	-124.28	23682
199 02:41:27	-149.79	23683
199 04:23:30	-175.30	23684
199 06:05:33	159.18	23685
199 07:47:36	133.67	23686
199 09:29:39	108.16	23687
199 11:11:42	82.65	23688
199 12:53:45	57.14	23689
199 14:35:48	31.63	23690
199 16:17:51	6.12	23691
199 17:59:54	-19.39	23692
199 19:41:57	-44.90	23693
199 21:24:00	-70.41	23694
199 23:06:03	-95.92	23695

199 00:30:42	-79.37	14707
199 02:31:58	-104.89	14708
199 04:13:14	-130.21	14709
199 05:54:29	-155.51	14710
199 07:35:45	179.17	14711
199 09:17:01	153.85	14712
199 10:58:17	128.53	14713
199 12:39:33	103.22	14714
199 14:20:49	77.90	14715
199 16:02:05	52.58	14716
199 17:43:21	27.26	14717
199 19:24:37	1.94	14718
199 21:05:52	-23.36	14719
199 22:47:08	-48.68	14720

199 01:27:56	-175.05	4183
199 03:10:03	159.43	4184
199 04:52:11	133.89	4185
199 06:34:18	108.36	4186
199 08:16:25	82.84	4187
199 09:58:33	57.30	4188
199 11:40:40	31.78	4189
199 13:22:48	6.24	4190
199 15:04:55	-19.29	4191
199 16:47:03	-44.83	4192
199 18:29:10	-70.35	4193
199 20:11:17	-95.88	4194
199 21:53:25	-121.41	4195
199 23:35:32	-146.94	4196

200 00:48:06	-121.43	23696
200 02:30:09	-146.94	23697
200 04:12:12	-172.45	23698
200 05:54:15	162.04	23699
200 07:36:18	136.53	23700
200 09:18:21	111.02	23701
200 11:00:24	85.51	23702
200 12:42:27	60.00	23703
200 14:24:30	34.49	23704
200 16:06:33	8.98	23705
200 17:48:36	-16.53	23706
200 19:30:39	-42.04	23707
200 21:12:42	-67.55	23708
200 22:54:45	-93.06	23709

200 00:28:24	-74.00	14721
200 02:09:40	-99.31	14722
200 03:50:56	-124.63	14723
200 05:32:12	-149.95	14724
200 07:13:28	-175.27	14725
200 08:54:44	159.41	14726
200 10:36:00	134.10	14727
200 12:17:16	108.78	14728
200 13:59:31	83.47	14729
200 15:39:47	58.16	14730
200 17:21:03	32.84	14731
200 19:02:19	7.32	14732
200 20:43:35	-17.80	14733
200 22:24:51	-43.12	14734

200 01:17:40	-172.48	4197
200 02:59:47	162.00	4198
200 04:41:55	136.46	4199
200 06:24:02	110.94	4200
200 08:06:09	85.41	4201
200 09:48:17	59.87	4202
200 11:30:24	34.35	4203
200 13:12:32	8.81	4204
200 14:54:39	-16.71	4205
200 16:36:46	-42.24	4206
200 18:18:54	-67.78	4207
200 20:01:01	-93.30	4208
200 21:43:09	-118.84	4209
200 23:25:16	-144.36	4210

SATELLITE C1						SATELLITE C2						SATELLITE C3					
Ascending Node Predictions						Ascending Node Predictions						Ascending Node Predictions					
Predicting for 183 days						Predicting for 183 days						Predicting for 183 days					
TIME (GMT)	E	LONG	ORBIT	TIME (GMT)	E	LONG	ORBIT	TIME (GMT)	E	LONG	ORBIT	day	hr	mn	sc	deg	dg
201 01:41:53	-139.17	35227	201 01:23:33	-61.09	31707	201 01:12:07	-8.77	25448	201 01:41:03	-17.76	25462	201 01:25:59	-44.11	25463	201 02:57:02	-35.12	25449
201 03:27:14	-165.63	35228	201 03:08:27	-87.43	31708	201 04:41:58	-61.48	25450	201 02:40:40	-166.90	25454	201 04:23:35	166.74	25455	201 06:26:53	-87.84	25451
201 05:12:35	167.91	35229	201 04:53:19	-113.77	31709	201 08:11:49	-114.19	25452	201 05:11:31	140.38	25456	201 09:36:44	-140.55	25453	201 06:55:50	-96.82	25465
201 06:57:56	141.45	35230	201 06:38:11	-140.12	31710	201 10:56:26	114.03	25457	201 11:41:40	-123.18	25466	201 10:25:40	-149.54	25467	201 12:10:36	-175.90	25468
201 08:43:16	114.98	35231	201 08:23:04	-166.46	31711	201 13:55:31	157.75	25469	201 13:40:27	131.39	25470	201 14:23:32	105.03	25471	201 15:11:31	140.38	25455
201 10:28:37	88.52	35232	201 10:07:56	167.20	31712	201 16:36:26	61.31	25459	201 16:41:21	87.67	25458	201 17:26:17	34.96	25460	201 18:11:12	8.60	25461
201 12:13:58	62.06	35233	201 11:52:48	140.85	31713	201 23:36:08	8.60	25461	201 23:36:08	8.60	25461	201 23:36:08	8.60	25461	201 23:36:08	8.60	25461
201 13:39:19	35.60	35234	201 13:37:40	114.51	31714	201 23:36:08	8.60	25461	201 23:36:08	8.60	25461	201 23:36:08	8.60	25461	201 23:36:08	8.60	25461
201 15:44:40	9.14	35235	201 15:22:32	88.17	31715	201 23:36:08	8.60	25461	201 23:36:08	8.60	25461	201 23:36:08	8.60	25461	201 23:36:08	8.60	25461
201 17:30:00	-17.33	35236	201 17:07:25	61.83	31716	201 23:36:08	8.60	25461	201 23:36:08	8.60	25461	201 23:36:08	8.60	25461	201 23:36:08	8.60	25461
201 19:15:21	-43.79	35237	201 18:52:17	35.48	31717	201 23:36:08	8.60	25461	201 23:36:08	8.60	25461	201 23:36:08	8.60	25461	201 23:36:08	8.60	25461
201 21:00:42	-70.25	35238	201 20:37:09	9.14	31718	201 23:36:08	8.60	25461	201 23:36:08	8.60	25461	201 23:36:08	8.60	25461	201 23:36:08	8.60	25461
201 22:46:03	-96.71	35239	201 22:22:01	-17.20	31719	201 23:36:08	8.60	25461	201 23:36:08	8.60	25461	201 23:36:08	8.60	25461	201 23:36:08	8.60	25461
202 00:31:23	-123.18	35240	202 00:06:53	-43.55	31720	202 01:41:03	-17.76	25462	202 03:25:59	-44.11	25463	202 05:10:54	-70.47	25464	202 06:55:50	-96.82	25465
202 02:16:44	-149.64	35241	202 01:51:46	-69.89	31721	202 08:40:45	-123.18	25466	202 10:35:31	157.75	25469	202 12:30:27	131.39	25470	202 14:23:32	105.03	25471
202 04:02:05	-176.10	35242	202 03:36:38	-96.23	31722	202 15:10:18	78.68	25472	202 16:36:26	32.32	25473	202 18:11:12	8.60	25474	202 20:36:08	8.60	25474
202 05:47:26	157.44	35243	202 05:21:30	-122.58	31723	202 22:40:08	8.60	25474	202 23:36:08	8.60	25474	202 23:36:08	8.60	25474	202 23:36:08	8.60	25474
202 07:32:47	130.98	35244	202 07:06:22	-148.92	31724	202 23:36:08	8.60	25474	202 23:36:08	8.60	25474	202 23:36:08	8.60	25474	202 23:36:08	8.60	25474
202 09:18:07	104.51	35245	202 08:51:14	-175.26	31725	202 23:36:08	8.60	25474	202 23:36:08	8.60	25474	202 23:36:08	8.60	25474	202 23:36:08	8.60	25474
202 11:03:28	78.05	35246	202 10:36:07	158.40	31726	202 23:36:08	8.60	25474	202 23:36:08	8.60	25474	202 23:36:08	8.60	25474	202 23:36:08	8.60	25474
202 12:48:49	51.59	35247	202 12:20:59	132.05	31727	202 23:36:08	8.60	25474	202 23:36:08	8.60	25474	202 23:36:08	8.60	25474	202 23:36:08	8.60	25474
202 14:34:10	25.13	35248	202 14:05:31	105.71	31728	202 23:36:08	8.60	25474	202 23:36:08	8.60	25474	202 23:36:08	8.60	25474	202 23:36:08	8.60	25474
202 16:19:30	-1.34	35249	202 15:50:43	79.36	31729	202 23:36:08	8.60	25474	202 23:36:08	8.60	25474	202 23:36:08	8.60	25474	202 23:36:08	8.60	25474
202 18:04:51	-27.80	35250	202 17:35:35	53.02	31730	202 23:36:08	8.60	25474	202 23:36:08	8.60	25474	202 23:36:08	8.60	25474	202 23:36:08	8.60	25474
202 19:50:12	-54.26	35251	202 19:20:28	26.68	31731	202 23:36:08	8.60	25474	202 23:36:08	8.60	25474	202 23:36:08	8.60	25474	202 23:36:08	8.60	25474
202 21:35:33	-80.72	35252	202 21:05:20	.34	31732	202 23:36:08	8.60	25474	202 23:36:08	8.60	25474	202 23:36:08	8.60	25474	202 23:36:08	8.60	25474
202 23:20:53	-107.19	35253	202 22:50:12	-26.01	31733	202 23:36:08	8.60	25474	202 23:36:08	8.60	25474	202 23:36:08	8.60	25474	202 23:36:08	8.60	25474
203 01:06:14	-133.65	35254	203 00:35:04	-52.35	31734	203 00:23:04	-3.39	25475	203 02:09:59	-26.75	25476	203 03:54:55	-33.10	25477	203 05:39:50	-79.46	25478
203 02:51:35	-160.11	35255	203 02:19:57	-78.69	31735	203 07:24:46	-103.82	25479	203 09:09:41	-132.17	25480	203 10:54:37	-158.53	25481	203 12:39:32	175.11	25482
203 04:36:56	173.43	35256	203 04:04:49	-105.04	31736	203 14:24:27	148.76	25483	203 16:09:23	122.40	25484	203 18:34:18	96.04	25485	203 19:39:14	69.69	25486
203 06:22:17	146.97	35257	203 05:49:41	-131.38	31737	203 21:24:09	43.33	25487	203 23:09:05	16.97	25488	203 23:36:08	8.60	25474	203 23:36:08	8.60	25474
203 08:07:37	120.50	35258	203 07:34:33	-157.72	31738	203 23:36:08	8.60	25474	203 23:36:08	8.60	25474	203 23:36:08	8.60	25474	203 23:36:08	8.60	25474
203 09:52:58	94.04	35259	203 09:19:25	175.93	31739	203 23:36:08	8.60	25474	203 23:36:08	8.60	25474	203 23:36:08	8.60	25474	203 23:36:08	8.60	25474
203 11:38:19	67.58	35260	203 11:04:18	149.59	31740	203 23:36:08	8.60	25474	203 23:36:08	8.60	25474	203 23:36:08	8.60	25474	203 23:36:08	8.60	25474
203 13:23:40	41.12	35261	203 12:49:10	123.23	31741	203 23:36:08	8.60	25474	203 23:36:08	8.60	25474	203 23:36:08	8.60	25474	203 23:36:08	8.60	25474
203 15:09:00	14.65	35262	203 14:34:02	96.91	31742	203 23:36:08	8.60	25474	203 23:36:08	8.60	25474	203 23:36:08	8.60	25474	203 23:36:08	8.60	25474
203 16:54:21	-11.81	35263	203 16:18:54	70.56	31743	203 23:36:08	8.60	25474	203 23:36:08	8.60	25474	203 23:36:08	8.60	25474	203 23:36:08	8.60	25474
203 18:39:42	-38.27	35264	203 18:03:46	44.22	31744	203 23:36:08	8.60	25474	203 23:36:08	8.60	25474	203 23:36:08	8.60	25474	203 23:36:08	8.60	25474
203 20:25:03	-64.73	35265	203 19:48:39	17.88	31745	203 23:36:08	8.60	25474	203 23:36:08	8.60	25474	203 23:36:08	8.60	25474	203 23:36:08	8.60	25474
203 22:10:24	-91.19	35266	203 21:33:31	-8.47	31746	203 23:36:08	8.60	25474	203 23:36:08	8.60	25474	203 23:36:08	8.60	25474	203 23:36:08	8.60	25474
203 23:55:44	-117.66	35267	203 23:18:23	-34.81	31747	203 23:36:08	8.60	25474	203 23:36:08	8.60	25474	203 23:36:08	8.60	25474	203 23:36:08	8.60	25474
204 01:41:03	-164.12	35268	204 01:03:15	-61.15	31748	204 00:34:00	-9.38	25489	204 02:38:55	-35.74	25490	204 04:23:51	-62.10	25491	204 06:08:46	-88.45	25492
204 03:26:26	-170.58	35269	204 02:48:07	-87.50	31749	204 07:53:42	-114.81	25493	204 09:38:37	-141.17	25494	204 11:23:33	-167.52	25495	204 13:08:28	166.12	25496
204 05:11:47	162.96	35270	204 04:33:00	-113.84	31750	204 14:53:24	139.77	25497	204 16:38:19	113.41	25498	204 18:23:14	87.05	25499	204 20:08:10	60.70	25500
204 06:57:07	136.49	35271	204 06:17:52	-140.18	31751	204 21:53:05	34.34	25501	204 23:38:01	7.98	25502	204 23:36:08	8.60	25474	204 23:36:08	8.60	25474
204 08:42:28	110.03	35272	204 08:02:44	-166.53	31752	204 23:36:08	8.60	25474	204 23:36:08	8.60	25474	204 23:36					

SATELLITE S2
Ascending Node Predictions

Predicting for 183 days

 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

201 00:36:48 -118.58 23710
 201 02:18:51 -144.09 23711
 201 04:00:54 -169.60 23712
 201 05:42:57 164.89 23713
 201 07:25:00 139.38 23714
 201 09:07:03 113.87 23715
 201 10:49:06 88.36 23716
 201 12:31:09 62.85 23717
 201 14:13:12 37.34 23718
 201 15:55:15 11.83 23719
 201 17:37:18 -13.68 23720
 201 19:19:21 -39.19 23721
 201 21:01:24 -64.70 23722
 201 22:43:27 -90.21 23723

SATELLITE S3
Ascending Node Predictions

Predicting for 183 days

 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

201 00:06:07 -68.43 14735
 201 01:47:23 -93.75 14736
 201 03:28:39 -119.07 14737
 201 05:09:54 -144.38 14738
 201 06:51:10 -169.69 14739
 201 08:32:26 164.99 14740
 201 10:13:42 139.67 14741
 201 11:54:58 114.35 14742
 201 13:36:14 89.03 14743
 201 15:17:30 63.72 14744
 201 16:58:46 38.48 14745
 201 18:40:02 13.08 14746
 201 20:21:17 -12.22 14747
 201 22:02:33 -37.54 14748
 201 23:43:49 -62.86 14749

SATELLITE S4
Ascending Node Predictions

Predicting for 183 days

 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

201 01:07:24 -169.90 4211
 201 02:49:31 164.57 4212
 201 04:31:38 139.05 4213
 201 06:13:46 113.51 4214
 201 07:55:53 87.98 4215
 201 09:38:01 62.45 4216
 201 11:20:08 36.92 4217
 201 13:02:15 11.40 4218
 201 14:44:23 -14.14 4219
 201 16:26:30 -39.67 4220
 201 18:08:38 -65.20 4221
 201 19:50:45 -90.73 4222
 201 21:32:53 -116.27 4223
 201 23:15:00 -141.79 4224

202 00:25:30 -115.72 23724
 202 02:07:33 -141.23 23725
 202 03:49:36 -166.74 23726
 202 05:31:39 167.75 23727
 202 07:13:42 142.24 23728
 202 08:55:45 116.73 23729
 202 10:37:48 91.22 23730
 202 12:19:51 65.71 23731
 202 14:01:54 40.20 23732
 202 15:43:57 14.69 23733
 202 17:26:00 -10.82 23734
 202 19:08:03 -36.33 23735
 202 20:50:05 -61.83 23736
 202 22:32:08 -87.34 23737

202 01:25:05 -88.18 14750
 202 03:06:21 -113.50 14751
 202 04:47:37 -138.81 14752
 202 06:28:53 -164.13 14753
 202 08:10:09 170.55 14754
 202 09:51:25 145.23 14755
 202 11:32:40 119.93 14756
 202 13:13:56 94.61 14757
 202 14:55:12 69.29 14758
 202 16:36:28 43.97 14759
 202 18:17:44 18.66 14760
 202 19:59:00 -6.66 14761
 202 21:40:16 -31.98 14762
 202 23:21:32 -57.30 14763

202 00:57:07 -167.32 4225
 202 02:39:15 167.15 4226
 202 04:21:22 141.62 4227
 202 06:03:30 116.08 4228
 202 07:45:37 90.56 4229
 202 09:27:45 65.02 4230
 202 11:09:52 39.50 4231
 202 12:51:59 13.97 4232
 202 14:34:07 -11.57 4233
 202 16:16:14 -37.09 4234
 202 17:58:22 -62.63 4235
 202 19:40:29 -88.15 4236
 202 21:22:36 -113.68 4237
 202 23:04:44 -139.22 4238

203 00:14:11 -112.85 23738
 203 01:56:14 -138.36 23739
 203 03:38:17 -163.87 23740
 203 05:20:20 170.62 23741
 203 07:02:23 145.11 23742
 203 08:44:26 119.60 23743
 203 10:26:29 94.09 23744
 203 12:08:32 68.57 23745
 203 13:50:35 43.06 23746
 203 15:32:38 17.55 23747
 203 17:14:41 -7.96 23748
 203 18:56:44 -33.47 23749
 203 20:38:47 -58.98 23750
 203 22:20:50 -84.49 23751

203 01:02:48 -82.62 14764
 203 02:44:03 -107.92 14765
 203 04:25:19 -133.24 14766
 203 06:06:35 -150.56 14767
 203 07:47:51 176.13 14768
 203 09:29:07 150.81 14769
 203 11:10:23 125.49 14770
 203 12:51:39 100.17 14771
 203 14:32:55 74.85 14772
 203 16:14:11 49.54 14773
 203 17:55:26 24.23 14774
 203 19:36:42 -1.09 14775
 203 21:17:58 -26.41 14776
 203 22:59:14 -51.72 14777

203 00:46:51 -164.74 4239
 203 02:28:59 169.72 4240
 203 04:11:06 144.19 4241
 203 05:53:14 118.66 4242
 203 07:35:21 93.13 4243
 203 09:17:28 67.61 4244
 203 10:59:36 42.07 4245
 203 12:41:43 16.54 4246
 203 14:23:51 -8.99 4247
 203 16:05:58 -34.52 4248
 203 17:48:05 -60.04 4249
 203 19:30:13 -85.58 4250
 203 21:12:20 -111.11 4251
 203 22:54:28 -136.64 4252

204 00:02:53 -110.00 23752
 204 01:44:56 -135.51 23753
 204 03:26:59 -161.02 23754
 204 05:09:02 173.47 23755
 204 06:51:05 147.96 23756
 204 08:33:08 122.45 23757
 204 10:15:11 96.94 23758
 204 11:57:14 71.43 23759
 204 13:39:17 45.92 23760
 204 15:21:20 20.41 23761
 204 17:03:23 -5.10 23762
 204 18:45:26 -30.61 23763
 204 20:27:29 -56.12 23764
 204 22:09:32 -81.63 23765
 204 23:51:35 -107.14 23766

204 00:40:30 -77.04 14778
 204 02:21:46 -102.36 14779
 204 04:03:02 -127.68 14780
 204 05:44:18 -153.00 14781
 204 07:25:34 -178.31 14782
 204 09:06:49 156.38 14783
 204 10:48:05 131.06 14784
 204 12:29:21 105.75 14785
 204 14:10:37 80.43 14786
 204 15:51:53 55.11 14787
 204 17:33:09 29.79 14788
 204 19:14:25 4.47 14789
 204 20:55:41 -20.84 14790
 204 22:36:57 -46.16 14791

204 00:36:35 -162.17 4253
 204 02:18:43 172.29 4254
 204 04:00:50 146.77 4255
 204 05:42:57 121.24 4256
 204 07:25:05 95.71 4257
 204 09:07:12 70.18 4258
 204 10:49:20 44.64 4259
 204 12:31:27 19.12 4260
 204 14:13:35 -6.42 4261
 204 15:55:42 -31.95 4262
 204 17:37:49 -57.47 4263
 204 19:19:57 -83.01 4264
 204 21:02:04 -108.53 4265
 204 22:44:12 -134.07 4266

SATELLITE C1							SATELLITE C2							SATELLITE C3							
Ascending Node Predictions							Ascending Node Predictions							Ascending Node Predictions							
Predicting for 183 days							Predicting for 183 days							Predicting for 183 days							
TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	
day	hr	mn	sc	deg	dg	day	hr	mn	sc	deg	dg	day	hr	mn	sc	deg	dg	day	hr	mn	sc
205 00:30:35	-128.13	35281	205 01:31:26	-69.96	31762	205 01:22:56	-18.37	25503	205 03:07:52	-44.73	25504	205 01:06:57	-1.01	25516	205 01:51:52	-27.37	25517	205 03:36:48	-53.72	25518	
205 02:15:56	-154.59	35282	205 03:16:18	-96.39	31763	205 04:52:47	-71.09	25505	205 04:06:49	-21.43	25519	205 02:22:38	-123.80	25507	205 05:21:43	-80.08	25519	205 05:21:43	-80.08	25519	
205 04:01:17	178.95	35283	205 05:01:10	-122.64	31764	205 06:37:42	-97.44	25506	205 10:07:33	-150.16	25508	205 11:52:29	-176.51	25509	205 13:37:24	157.13	25510	205 15:22:20	130.77	25511	
205 05:46:37	152.48	35284	205 06:46:03	-148.98	31765	205 17:07:15	104.42	25512	205 18:52:11	78.06	25513	205 19:49:24	-59.21	35292	205 19:37:06	51.70	25514	205 22:22:01	25.35	25515	
205 07:31:58	126.02	35285	205 08:30:55	-175.33	31766	205 22:29:52	-26.08	31774	205 23:20:05	-112.14	35294	206 00:14:45	-52.92	31775	206 00:06:57	-1.01	25516	206 01:59:37	-27.37	25517	
205 09:17:19	99.56	35286	205 10:15:47	158.33	31767	206 03:44:29	-105.10	31777	206 03:36:48	-53.72	25518	206 05:21:43	-80.08	25519	206 07:06:39	-106.43	25520	206 08:51:34	-132.79	25521	
205 11:02:40	73.10	35287	205 12:00:39	131.98	31768	206 10:43:58	149.52	31781	206 10:36:29	-159.15	25522	206 12:21:25	174.50	25523	206 14:06:20	148.14	25524	206 15:51:16	121.78	25525	
205 12:48:01	46.64	35288	205 13:45:31	105.64	31769	206 15:58:35	70.50	31784	206 17:36:11	95.43	25526	206 19:28:19	17.81	31786	206 19:21:07	69.07	25527	206 21:06:02	42.71	25528	
205 14:33:21	20.17	35289	205 19:00:08	26.61	31772	206 21:13:11	-8.53	31787	206 22:58:03	-34.88	31788	206 22:50:57	16.35	25529	206 23:20:53	-10.00	25530	207 02:27:48	-36.36	25531	
205 16:18:42	-6.29	35290	205 20:45:00	.27	31773	207 00:42:56	-61.22	31789	207 04:05:44	-62.71	25532	207 05:50:39	-89.07	25533	207 07:35:35	-115.43	25534	207 09:20:30	-141.78	25535	
205 18:04:03	-32.75	35291	205 22:29:52	-26.08	31774	207 02:12:40	-113.91	31791	207 11:05:26	-168.14	25536	207 12:50:21	165.50	25537	207 14:35:16	139.15	25538	207 16:20:12	112.79	25539	
205 19:49:24	-59.21	35292	206 00:14:45	-52.92	31775	207 14:41:53	88.03	31797	207 18:05:07	86.43	25540	207 19:50:03	60.08	25541	207 21:34:58	33.72	25542	207 23:19:54	7.37	25543	
205 21:34:44	-85.68	35293	206 03:44:29	-105.10	31776	207 15:57:01	114.38	31796	207 21:41:22	-17.34	31801	208 01:11:06	-70.02	31803	208 01:04:49	-18.99	25544	208 02:55:59	-45.35	25545	
205 23:20:05	-112.14	35294	206 05:57:32	-140.25	31792	207 16:26:45	61.69	31798	208 04:40:51	-122.71	31805	208 04:34:40	-71.70	25546	208 06:19:35	-98.06	25547	208 08:04:31	-124.42	25548	
206 01:05:26	-138.60	35295	206 07:14:14	-157.79	31779	207 18:11:38	35.35	31799	208 09:55:27	158.26	31808	208 09:49:26	-150.77	25549	208 11:34:22	-177.13	25550	208 13:19:17	156.51	25551	
206 02:50:47	-165.06	35296	206 08:59:06	175.87	31780	207 19:56:30	9.01	31800	208 15:10:04	79.23	31811	208 15:04:13	130.16	25552	208 16:49:08	103.80	25553	208 18:34:03	77.44	25554	
206 04:36:08	168.48	35297	206 10:42:24	-166.59	31793	207 20:24:41	20	31814	208 22:09:33	-26.14	31815	208 20:18:59	51.09	25555	208 22:03:54	24.73	25556	208 23:48:50	-1.63	25557	
206 06:21:28	142.01	35298	206 12:28:50	123.18	31782	207 23:26:14	-43.68	31802	208 23:54:25	-52.48	31816	208 23:19:54	7.37	25543	209 01:40:17	-149.07	35309	209 03:25:38	-175.53	35310	
206 08:06:49	115.55	35299	206 14:13:42	96.84	31783	207 09:27:17	167.07	31794	209 05:10:58	158.00	35311	209 07:12:09	140.72	31795	209 11:12:09	140.72	31795	209 12:57:42	25.69	35316	
206 09:52:10	89.09	35300	206 15:58:35	70.50	31784	207 12:57:01	114.38	31796	209 15:43:03	-.77	35317	207 14:41:53	88.03	31797	207 16:26:45	61.69	31798	207 17:28:24	-27.23	35318	
206 11:37:31	62.63	35301	206 19:28:19	17.81	31786	207 18:11:38	35.35	31799	207 19:13:45	-53.69	35319	207 19:56:30	9.01	31800	207 21:34:58	33.72	25542	207 22:44:26	-106.62	35321	
206 13:22:51	36.16	35302	206 21:13:11	-8.53	31787	207 23:26:14	-43.68	31802	208 00:29:47	-133.08	35322	208 02:55:59	-96.37	31804	208 04:40:51	-122.71	31805	208 06:23:43	-149.05	31806	
206 15:08:12	9.70	35303	206 22:58:03	-34.88	31788	208 08:10:35	-175.40	31807	208 09:16:31	94.61	35327	208 09:55:27	158.26	31808	208 11:40:20	131.92	31809	208 13:25:12	105.58	31810	
206 16:53:33	-16.76	35304	207 00:42:56	-61.22	31789	208 15:10:04	79.23	31811	208 14:32:33	15.22	35330	208 16:54:56	52.89	31812	208 18:39:49	26.55	31813	208 20:24:41	.20	31814	
206 18:38:54	-43.22	35305	207 02:12:40	-113.91	31791	208 18:11:38	35.35	31799	208 21:33:56	-90.63	35334	208 22:09:33	-26.14	31815	208 23:54:25	-52.48	31816	209 01:40:17	-117.09	35335	

West longitude is negative (-)

SATELLITE S2

Ascending Node Predictions

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

205 01:33:38	-132.65	23767
205 03:15:41	-158.16	23768
205 04:57:44	176.33	23769
205 06:39:47	150.82	23770
205 08:21:50	125.31	23771
205 10:03:53	99.79	23772
205 11:45:56	74.28	23773
205 13:27:59	48.77	23774
205 15:10:02	23.26	23775
205 16:52:05	-2.25	23776
205 18:34:08	-27.76	23777
205 20:16:11	-53.27	23778
205 21:58:14	-78.78	23779
205 23:40:17	-104.29	23780

SATELLITE S3

Ascending Node Predictions

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

205 00:18:12	-71.47	14792
205 01:59:28	-96.78	14793
205 03:40:44	-122.10	14794
205 05:22:00	-147.42	14795
205 07:03:16	-172.74	14796
205 08:44:32	161.94	14797
205 10:25:48	136.63	14798
205 12:07:04	111.31	14799
205 13:48:20	85.20	14800
205 15:29:35	60.68	14801
205 17:10:51	35.37	14802
205 18:52:07	10.05	14803
205 20:33:23	-15.27	14804
205 22:14:39	-40.59	14805
205 23:55:55	-65.91	14806

SATELLITE S4

Ascending Node Predictions

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

205 00:26:19	-159.60	4267
205 02:08:26	174.88	4268
205 03:50:34	149.34	4269
205 05:32:41	123.82	4270
205 07:14:49	98.28	4271
205 08:56:56	72.75	4272
205 10:39:04	47.22	4273
205 12:21:11	21.69	4274
205 14:03:18	-3.83	4275
205 15:45:26	-29.37	4276
205 17:27:33	-54.90	4277
205 19:09:41	-80.43	4278
205 20:51:48	-105.96	4279
205 22:33:55	-131.48	4280

206 01:22:20	-129.80	23781
206 03:04:23	-155.31	23782
206 04:46:26	179.18	23783
206 06:28:29	153.67	23784
206 08:10:32	128.16	23785
206 09:52:35	102.65	23786
206 11:34:38	77.14	23787
206 13:16:41	51.63	23788
206 14:58:44	26.12	23789
206 16:40:47	.61	23790
206 18:22:50	-24.90	23791
206 20:04:53	-50.41	23792
206 21:46:56	-75.92	23793
206 23:28:59	-101.43	23794

206 01:37:11	-91.22	14807
206 03:18:27	-116.54	14808
206 04:59:43	-141.86	14809
206 06:40:58	-167.16	14810
206 08:22:14	167.52	14811
206 10:03:30	142.20	14812
206 11:44:46	116.88	14813
206 13:26:02	91.56	14814
206 15:07:18	66.25	14815
206 16:48:34	40.93	14816
206 18:29:50	15.61	14817
206 20:11:06	-9.71	14818
206 21:52:21	-35.01	14819
206 23:33:37	-60.33	14820

206 00:16:03	-157.02	4281
206 01:58:10	177.45	4282
206 03:40:18	151.91	4283
206 05:22:25	126.39	4284
206 07:04:33	100.85	4285
206 08:46:40	75.33	4286
206 10:28:47	49.80	4287
206 12:10:55	24.26	4288
206 13:53:02	-1.26	4289
206 15:35:10	-26.80	4290
206 17:17:17	-52.32	4291
206 18:59:24	-77.85	4292
206 20:41:32	-103.39	4293
206 22:23:39	-128.91	4294

207 01:11:02	-126.94	23795
207 02:53:05	-152.45	23796
207 04:35:07	-177.95	23797
207 06:17:10	156.54	23798
207 07:59:13	131.03	23799
207 09:41:16	105.52	23800
207 11:23:19	80.01	23801
207 13:05:22	54.50	23802
207 14:47:25	28.99	23803
207 16:29:28	3.48	23804
207 18:11:31	-22.03	23805
207 19:53:34	-47.54	23806
207 21:35:37	-73.05	23807
207 23:17:40	-98.57	23808

207 01:14:53	-85.65	14821
207 02:56:09	-110.97	14822
207 04:37:25	-136.28	14823
207 06:18:41	-161.60	14824
207 07:59:57	173.08	14825
207 09:41:13	147.76	14826
207 11:22:29	122.44	14827
207 13:03:44	97.14	14828
207 14:45:00	71.82	14829
207 16:26:16	46.50	14830
207 18:07:32	21.18	14831
207 19:48:48	-4.13	14832
207 21:30:04	-29.45	14833
207 23:11:20	-54.77	14834

207 00:05:47	-154.45	4295
207 01:47:54	-179.97	4296
207 03:30:02	154.49	4297
207 05:12:09	128.96	4298
207 06:54:16	103.44	4299
207 08:36:24	77.90	4300
207 10:18:31	52.38	4301
207 12:00:39	26.84	4302
207 13:42:46	1.31	4303
207 15:24:53	-24.21	4304
207 17:07:01	-49.75	4305
207 18:49:08	-75.27	4306
207 20:31:16	-100.81	4307
207 22:13:23	-126.34	4308
207 23:55:31	-151.88	4309

208 00:59:43	-124.08	23809
208 02:41:46	-149.59	23810
208 04:23:49	-175.10	23811
208 06:05:52	159.39	23812
208 07:47:55	133.88	23813
208 09:29:58	108.37	23814
208 11:12:01	82.86	23815
208 12:54:04	57.35	23816
208 14:36:07	31.84	23817
208 16:18:10	6.33	23818
208 18:00:13	-19.18	23819
208 19:42:16	-44.69	23820
208 21:24:19	-70.20	23821
208 23:06:22	-95.71	23822

208 00:52:36	-80.09	14835
208 02:33:52	-105.40	14836
208 04:15:07	-130.71	14837
208 05:56:23	-156.03	14838
208 07:37:39	178.65	14839
208 09:18:55	153.34	14840
208 11:00:11	128.02	14841
208 12:41:27	102.70	14842
208 14:22:43	77.38	14843
208 16:03:59	52.06	14844
208 17:45:15	26.75	14845
208 19:26:30	1.44	14846
208 21:07:46	-23.88	14847
208 22:49:02	-49.19	14848

208 01:37:38	-177.40	4310
208 03:19:45	157.07	4311
208 05:01:53	131.54	4312
208 06:44:00	106.01	4313
208 08:26:08	80.47	4314
208 10:08:15	54.95	4315
208 11:50:22	29.42	4316
208 13:32:30	3.89	4317
208 15:14:37	-21.64	4318
208 16:56:45	-47.18	4319
208 18:38:52	-72.70	4320
208 20:21:00	-98.24	4321
208 22:03:07	-123.76	4322
208 23:45:14	-149.29	4323

SATELLITE C1							SATELLITE C2							SATELLITE C3																																													
Ascending Node Predictions							Ascending Node Predictions							Ascending Node Predictions																																													
Predicting for 183 days							Predicting for 183 days							Predicting for 183 days																																													
TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	day	hr	mn	sc	deg	day	hr	mn	sc	deg	dg	day	hr	mn	sc	deg	dg																																		
209 01:04:38	-143.55	35336	209 01:39:17	-78.83	31817	209 01:33:45	-27.98	25558	209 01:18:41	-54.34	25559	209 03:18:41	-54.34	25559	209 05:03:36	-80.70	25560	209 06:48:31	-107.05	25561	209 08:33:27	-133.41	25562	209 10:18:22	-159.77	25563	209 12:03:18	173.88	25564	209 13:48:13	147.52	25565	209 15:33:09	121.17	25566	209 17:18:04	94.81	25567	209 19:02:59	68.45	25568	209 20:47:55	42.10	25569	209 22:32:50	15.74	25570												
209 02:49:59	-170.02	35337	209 03:24:10	-105.17	31818	209 00:17:46	-10.62	25571	210 02:02:41	-36.97	25572	210 03:47:37	-63.33	25573	210 05:32:32	-89.69	25574	210 07:17:28	-116.04	25575	210 09:02:23	-142.40	25576	210 10:47:18	-168.76	25577	210 12:32:14	164.89	25578	210 14:17:09	138.53	25579	210 16:02:05	112.17	25580	210 17:47:00	85.82	25581	210 19:31:56	59.46	25582	210 21:16:51	33.10	25583	210 23:01:46	6.75	25584												
209 04:35:19	163.52	35338	209 05:09:02	-131.51	31819	211 00:28:59	-138.04	35363	211 00:30:47	-70.09	31844	211 00:46:42	-19.61	25585	211 02:31:37	-45.97	25586	211 04:16:33	-72.32	25587	211 06:01:28	-98.68	25588	211 07:46:24	-125.03	25589	211 09:31:19	-151.39	25590	211 11:16:14	-177.75	25591	211 13:01:10	155.90	25592	211 14:46:05	129.54	25593	211 16:31:01	103.18	25594	211 18:15:56	76.83	25595	211 20:00:52	50.47	25596	211 21:45:47	24.11	25597	211 23:30:42	-2.24	25598						
209 06:20:40	137.06	35339	209 06:53:54	-157.86	31820	211 02:14:19	-164.50	35364	211 02:35:39	-96.43	31845	212 01:03:50	-148.51	35377	212 01:18:58	-78.89	31838	212 01:15:38	-28.60	25599	212 03:00:33	-54.96	25600	212 04:45:29	-81.31	25601	212 06:30:24	-107.67	25602	212 08:15:20	-134.02	25603	212 10:00:15	-160.38	25604	212 11:45:11	173.26	25605	212 13:30:06	146.90	25606	212 15:15:01	120.55	25607	212 16:59:57	94.19	25608	212 18:44:52	67.83	25609	212 20:29:48	41.48	25610	212 22:14:43	15.12	25611	212 23:59:39	-11.23	25612
209 08:06:01	110.60	35340	209 08:38:46	175.80	31821	209 09:51:22	84.14	35341	209 10:23:38	149.46	31822	209 11:36:42	57.67	35342	209 12:08:31	123.12	31823	209 13:22:03	31.21	35343	209 15:07:24	4.75	35344	209 16:52:45	-21.71	35345	209 18:38:05	-48.18	35346	209 20:23:26	-74.64	35347	209 22:08:47	-101.10	35348	209 23:54:08	-127.56	35349																					
209 09:51:22	84.14	35341	209 10:23:38	149.46	31822	209 11:36:42	57.67	35342	209 12:08:31	123.12	31823	209 13:22:03	31.21	35343	209 15:07:24	4.75	35344	209 16:52:45	-21.71	35345	209 18:38:05	-48.18	35346	209 20:23:26	-74.64	35347	209 22:08:47	-101.10	35348	209 23:54:08	-127.56	35349																											
209 11:36:42	57.67	35342	209 12:08:31	123.12	31823	209 13:22:03	31.21	35343	209 15:07:24	4.75	35344	209 16:52:45	-21.71	35345	209 18:38:05	-48.18	35346	209 20:23:26	-74.64	35347	209 22:08:47	-101.10	35348	209 23:54:08	-127.56	35349																																	
209 13:22:03	31.21	35343	209 15:07:24	4.75	35344	209 16:52:45	-21.71	35345	209 18:38:05	-48.18	35346	209 20:23:26	-74.64	35347	209 22:08:47	-101.10	35348	209 23:54:08	-127.56	35349																																							
209 15:07:24	4.75	35344	209 16:52:45	-21.71	35345	209 18:38:05	-48.18	35346	209 20:23:26	-74.64	35347	209 22:08:47	-101.10	35348	209 23:54:08	-127.56	35349																																										
209 16:52:45	-21.71	35345	209 18:38:05	-48.18	35346	209 20:23:26	-74.64	35347	209 22:08:47	-101.10	35348	209 23:54:08	-127.56	35349																																													
209 18:38:05	-48.18	35346	209 20:23:26	-74.64	35347	209 22:08:47	-101.10	35348	209 23:54:08	-127.56	35349																																																
209 20:23:26	-74.64	35347	209 22:08:47	-101.10	35348	209 23:54:08	-127.56	35349																																																			
209 22:08:47	-101.10	35348	209 23:54:08	-127.56	35349																																																						
209 23:54:08	-127.56	35349																																																									

West longitude is negative (-)

SATELLITE S2

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

209 00:48:23 -121.22 23823
 209 02:30:28 -146.73 23824
 209 04:12:31 -172.24 23825
 209 05:54:34 162.25 23826
 209 07:36:37 136.74 23827
 209 09:18:40 111.23 23828
 209 11:00:43 85.72 23829
 209 12:42:46 60.21 23830
 209 14:24:49 34.70 23831
 209 16:06:52 9.19 23832
 209 17:48:55 -16.32 23833
 209 19:30:58 -41.83 23834
 209 21:13:01 -67.35 23835
 209 22:55:04 -92.86 23836

SATELLITE S3

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

209 00:30:18 -74.31 14849
 209 02:11:34 -99.83 14850
 209 03:32:30 -125.15 14851
 209 05:34:06 -150.47 14852
 209 07:15:22 -175.78 14853
 209 08:56:38 158.90 14854
 209 10:37:53 133.59 14855
 209 12:19:09 108.27 14856
 209 14:00:25 82.96 14857
 209 15:41:41 57.64 14858
 209 17:22:57 32.32 14859
 209 19:04:13 7.00 14860
 209 20:45:29 -18.32 14861
 209 22:26:45 -43.63 14862

SATELLITE S4

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

209 01:27:22 -174.83 4324
 209 03:09:29 159.65 4325
 209 04:51:37 134.11 4326
 209 06:33:44 108.58 4327
 209 08:15:52 83.05 4328
 209 09:57:59 57.52 4329
 209 11:40:06 32.00 4330
 209 13:22:14 6.46 4331
 209 15:04:21 -19.07 4332
 209 16:46:29 -44.60 4333
 209 18:28:36 -70.13 4334
 209 20:10:43 -95.65 4335
 209 21:52:51 -121.19 4336
 209 23:34:58 -146.72 4337

210 00:37:07 -118.37 23837
 210 02:19:10 -143.88 23838
 210 04:01:13 -169.39 23839
 210 05:43:16 165.10 23840
 210 07:25:19 139.59 23841
 210 09:07:22 114.08 23842
 210 10:49:25 88.57 23843
 210 12:31:28 63.06 23844
 210 14:13:31 37.55 23845
 210 15:55:34 12.04 23846
 210 17:37:37 -13.47 23847
 210 19:19:40 -38.98 23848
 210 21:01:43 -64.49 23849
 210 22:43:46 -90.00 23850

210 00:08:01 -68.95 14863
 210 01:49:16 -94.26 14864
 210 03:30:32 -119.57 14865
 210 05:11:48 -144.89 14866
 210 06:53:04 -170.21 14867
 210 08:34:20 164.47 14868
 210 10:15:36 139.15 14869
 210 11:56:52 113.84 14870
 210 13:38:08 88.52 14871
 210 15:19:24 63.20 14872
 210 17:00:39 37.90 14873
 210 18:41:55 12.58 14874
 210 20:23:11 -12.74 14875
 210 22:04:27 -38.06 14876
 210 23:43:43 -63.38 14877

210 01:17:06 -172.23 4338
 210 02:59:13 162.22 4339
 210 04:41:21 136.68 4340
 210 06:23:28 111.16 4341
 210 08:05:35 85.63 4342
 210 09:47:43 60.09 4343
 210 11:29:50 34.57 4344
 210 13:11:58 9.03 4345
 210 14:54:05 -16.49 4346
 210 16:36:12 -42.02 4347
 210 18:18:20 -67.56 4348
 210 20:00:27 -93.08 4349
 210 21:42:35 -118.62 4350
 210 23:24:42 -144.14 4351

211 00:25:49 -115.51 23851
 211 02:07:52 -141.02 23852
 211 03:49:55 -166.53 23853
 211 05:31:58 167.96 23854
 211 07:14:01 142.45 23855
 211 08:56:04 116.94 23856
 211 10:38:07 91.43 23857
 211 12:20:10 65.92 23858
 211 14:02:13 40.41 23859
 211 15:44:16 14.90 23860
 211 17:26:19 -10.61 23861
 211 19:08:22 -36.13 23862
 211 20:50:24 -61.62 23863
 211 22:32:27 -87.13 23864

211 01:26:59 -88.69 14878
 211 03:08:15 -114.01 14879
 211 04:49:31 -139.33 14880
 211 06:30:47 -164.65 14881
 211 08:12:02 170.05 14882
 211 09:53:18 144.73 14883
 211 11:34:34 119.41 14884
 211 13:15:50 94.09 14885
 211 14:57:06 68.77 14886
 211 16:38:22 43.46 14887
 211 18:19:38 18.14 14888
 211 20:00:54 -7.18 14889
 211 21:42:09 -32.48 14890
 211 23:23:25 -57.80 14891

211 01:06:30 -169.68 4352
 211 02:48:57 164.79 4353
 211 04:31:04 139.27 4354
 211 06:13:12 113.73 4355
 211 07:55:19 88.21 4356
 211 09:37:27 62.67 4357
 211 11:19:34 37.14 4358
 211 13:01:41 11.62 4359
 211 14:43:49 -13.92 4360
 211 16:25:56 -39.44 4361
 211 18:08:04 -64.98 4362
 211 19:50:11 -90.51 4363
 211 21:32:18 -116.03 4364
 211 23:14:26 -141.57 4365

212 00:14:30 -112.64 23865
 212 01:56:33 -138.15 23866
 212 03:38:36 -163.66 23867
 212 05:20:39 170.83 23868
 212 07:02:42 145.32 23869
 212 08:44:45 119.81 23870
 212 10:26:48 94.30 23871
 212 12:08:51 68.78 23872
 212 13:50:54 43.27 23873
 212 15:32:57 17.76 23874
 212 17:15:00 -7.75 23875
 212 18:57:03 -33.26 23876
 212 20:39:06 -58.77 23877
 212 22:21:09 -84.28 23878

212 01:04:41 -83.12 14892
 212 02:45:57 -108.44 14893
 212 04:27:13 -133.76 14894
 212 06:08:29 -159.07 14895
 212 07:49:45 175.61 14896
 212 09:31:01 150.29 14897
 212 11:12:17 124.97 14898
 212 12:53:32 99.67 14899
 212 14:34:48 74.35 14900
 212 16:16:04 49.03 14901
 212 17:57:20 23.71 14902
 212 19:38:36 -1.61 14903
 212 21:19:52 -26.92 14904
 212 23:01:08 -52.24 14905

212 00:56:33 -167.10 4366
 212 02:38:41 167.37 4367
 212 04:20:48 141.84 4368
 212 06:02:56 116.30 4369
 212 07:45:03 90.78 4370
 212 09:27:10 65.25 4371
 212 11:09:18 39.72 4372
 212 12:51:25 14.19 4373
 212 14:33:33 -11.35 4374
 212 16:15:40 -36.87 4375
 212 17:57:47 -62.40 4376
 212 19:39:55 -87.93 4377
 212 21:22:02 -113.46 4378
 212 23:04:10 -139.00 4379

SATELLITE C1						SATELLITE C2						SATELLITE C3					
Ascending Node Predictions						Ascending Node Predictions						Ascending Node Predictions					
Predicting for 183 days						Predicting for 183 days						Predicting for 183 days					
TIME (GMT)			E LONG			TIME (GMT)			ORBIT			TIME (GMT)			E LONG		
day	hr	mn	sc	deg	dg	day	hr	mn	sc	deg	dg	day	hr	mn	sc	deg	dg
213 01:38:40	-158.98	35391	213 00:02:17	-61.35	31871	213 01:44:34	-37.59	25613	213 03:29:29	-63.95	25614	213 03:29:29	-63.95	25614	213 05:14:25	-90.30	25615
213 03:24:01	174.56	35392	213 01:47:09	-87.70	31872	213 06:59:20	-116.66	25616	213 05:14:25	-90.30	25615	213 06:59:20	-116.66	25616	213 08:44:16	-143.02	25617
213 05:09:22	148.09	35393	213 03:32:01	-114.04	31873	213 10:29:11	-169.37	25618	213 08:44:16	-143.02	25617	213 05:14:25	-90.30	25615	213 12:14:07	164.27	25619
213 06:54:43	121.63	35394	213 05:16:53	-140.38	31874	213 13:59:02	137.91	25620	213 12:14:07	164.27	25619	213 06:59:20	-116.66	25616	213 15:43:57	111.56	25621
213 08:40:04	95.17	35395	213 07:01:45	-166.73	31875	213 17:28:53	85.20	25622	213 08:44:16	-143.02	25617	213 08:40:04	95.17	35395	213 19:13:48	58.84	25623
213 10:25:24	68.71	35396	213 08:46:38	166.93	31876	213 19:13:48	58.84	25623	213 10:29:11	-169.37	25618	213 19:13:48	58.84	25623	213 20:58:44	32.49	25624
213 12:10:45	42.25	35397	213 10:31:30	140.39	31877	213 20:58:44	32.49	25624	213 10:29:11	-169.37	25618	213 22:43:39	6.13	25625	213 22:43:39	6.13	25625
213 13:56:06	15.78	35398	213 12:16:22	114.24	31878	213 22:43:39	6.13	25625	213 13:59:02	137.91	25620	213 13:59:02	137.91	25620	213 15:43:57	111.56	25621
213 15:41:27	-10.68	35399	213 14:01:14	87.90	31879	213 17:28:53	85.20	25622	213 15:43:57	111.56	25621	213 14:01:14	87.90	31879	213 19:13:48	58.84	25623
213 17:26:47	-37.14	35400	213 15:46:07	61.56	31880	213 19:13:48	58.84	25623	213 15:46:07	61.56	31880	213 19:13:48	58.84	25623	213 20:58:44	32.49	25624
213 19:12:08	-63.60	35401	213 17:30:59	35.21	31881	213 20:58:44	32.49	25624	213 17:30:59	35.21	31881	213 20:58:44	32.49	25624	213 22:43:39	6.13	25625
213 20:57:29	-90.07	35402	213 19:15:51	8.87	31882	213 22:43:39	6.13	25625	213 19:15:51	8.87	31882	213 22:43:39	6.13	25625	213 22:43:39	6.13	25625
213 22:42:50	-116.53	35403	213 21:00:43	-17.47	31883	213 22:43:39	6.13	25625	213 21:00:43	-17.47	31883	213 22:43:39	6.13	25625	213 22:43:39	6.13	25625
213 22:45:35	-43.82	31884	213 22:45:35	-43.82	31884	213 22:45:35	-43.82	31884	213 22:45:35	-43.82	31884	213 22:45:35	-43.82	31884	213 22:45:35	-43.82	31884
214 00:28:10	-142.99	35404	214 00:30:28	-70.16	31885	214 00:28:35	-20.22	25626	214 02:13:31	-169.45	35405	214 02:13:30	-46.58	25627	214 03:58:25	-72.94	25628
214 02:13:31	-169.45	35405	214 02:15:20	-96.50	31886	214 03:58:25	-72.94	25628	214 04:00:12	-122.84	31887	214 04:43:21	-99.29	25629	214 04:45:04	-149.19	31888
214 03:58:52	164.08	35406	214 04:29:56	-175.53	31889	214 07:28:16	-125.65	25630	214 07:29:34	111.16	35408	214 09:13:12	-152.01	25631	214 09:14:49	158.13	31890
214 05:44:13	137.62	35407	214 10:59:41	131.78	31891	214 10:58:07	-178.37	25632	214 11:00:15	58.24	35410	214 12:43:03	155.28	25633	214 12:45:36	31.77	35411
214 14:30:57	5.31	35412	214 12:44:33	105.44	31892	214 14:27:58	128.92	25634	214 16:16:17	-21.15	35413	214 14:29:25	79.10	31893	214 16:12:53	102.56	25635
214 18:01:38	-47.61	35414	214 16:14:17	52.75	31894	214 17:57:49	76.21	25636	214 19:46:59	-74.08	35415	214 19:44:02	.07	31896	214 19:42:44	49.85	25637
214 21:32:20	-100.54	35416	214 21:28:54	-26.28	31897	214 21:27:40	23.50	25638	214 23:17:41	-127.00	35417	214 23:13:46	-52.62	31898	214 23:12:35	-2.86	25639
215 01:03:01	-153.46	35418	215 00:58:39	-78.96	31899	215 00:57:31	-29.22	25640	215 02:48:22	-179.93	35419	215 02:42:26	-55.57	25641	215 04:33:43	153.61	35420
215 04:33:43	127.15	35421	215 04:28:23	-131.65	31901	215 04:27:21	-81.93	25642	215 06:19:04	100.69	35422	215 06:12:17	-108.29	25643	215 08:04:24	-157.99	31902
215 09:49:45	74.22	35423	215 07:58:07	175.66	31903	215 07:57:12	-134.64	25644	215 11:35:06	47.76	35424	215 09:43:00	149.32	31904	215 09:42:08	-161.00	25645
215 13:20:27	21.30	35425	215 11:27:52	122.98	31905	215 11:27:03	172.64	25646	215 15:05:48	-5.16	35426	215 13:12:44	96.64	31906	215 13:11:39	146.29	25647
215 16:51:08	-31.62	35427	215 14:57:36	70.29	31907	215 14:56:54	119.93	25648	215 18:36:29	-58.09	35428	215 18:27:21	17.61	31909	215 18:26:45	67.22	25650
215 20:21:50	-84.55	35429	215 20:12:13	-8.74	31910	215 20:11:40	40.86	25651	215 22:07:11	-111.01	35430	215 21:57:05	-35.08	31911	215 21:56:36	14.51	25652
215 23:52:32	-137.47	35431	215 23:41:57	-61.42	31912	215 23:41:31	-11.85	25653	215 23:41:57	-61.42	31912	215 23:41:31	-11.85	25653	215 23:41:31	-11.85	25653
216 01:37:52	-163.94	35432	216 01:26:50	-87.76	31913	216 01:26:27	-38.21	25654	216 03:23:13	169.60	35433	216 03:11:42	-114.11	31914	216 03:11:22	-64.56	25655
216 05:08:34	143.14	35434	216 04:56:34	-140.45	31915	216 04:56:18	-90.92	25656	216 06:53:55	116.68	35435	216 06:41:26	-166.80	31916	216 06:41:13	-117.28	25657
216 08:39:15	90.21	35436	216 08:26:18	166.86	31917	216 08:26:08	-143.63	25658	216 10:24:36	63.75	35437	216 10:11:11	140.52	31918	216 10:11:04	-169.99	25659
216 12:09:57	37.29	35438	216 11:56:03	114.18	31919	216 11:55:59	163.65	25660	216 13:55:18	10.83	35439	216 13:40:55	87.83	31920	216 13:40:55	137.30	25661
216 15:40:39	-15.63	35440	216 15:25:47	61.49	31921	216 15:25:50	110.94	25662	216 17:25:59	-42.10	35441	216 17:10:39	35.14	31922	216 17:10:46	84.59	25663
216 19:11:20	-68.56	35442	216 18:55:32	8.80	31923	216 18:55:41	58.23	25664	216 20:56:41	-95.02	35443	216 20:40:24	-17.54	31924	216 20:40:36	31.87	25665
216 22:42:02	-121.48	35444	216 22:29:16	-43.88	31925	216 22:25:32	5.52	25666	216 22:25:32	-43.88	31925	216 22:25:32	5.52	25666	216 22:25:32	5.52	25666

West longitude is negative (-)

SATELLITE S2**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

213 00:03:12	-109.79	23879
213 01:45:15	-135.30	23880
213 03:27:18	-160.81	23881
213 05:09:21	173.68	23882
213 06:51:24	148.17	23883
213 08:33:27	122.66	23884
213 10:15:30	97.15	23885
213 11:57:33	71.64	23886
213 13:39:36	46.13	23887
213 15:21:39	20.62	23888
213 17:03:42	-4.89	23889
213 18:45:45	-30.40	23890
213 20:27:48	-55.91	23891
213 22:09:51	-81.42	23892
213 23:51:54	-106.93	23893

SATELLITE S3**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

213 00:42:24	-77.56	14906
213 02:23:40	-102.88	14907
213 04:04:55	-128.18	14908
213 05:46:11	-153.50	14909
213 07:27:27	-178.82	14910
213 09:08:43	-155.86	14911
213 10:49:59	-130.55	14912
213 12:31:15	105.23	14913
213 14:12:31	79.91	14914
213 15:53:47	54.59	14915
213 17:35:03	29.27	14916
213 19:16:18	3.97	14917
213 20:57:34	-21.35	14918
213 22:38:50	-46.67	14919

SATELLITE S4**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

213 00:46:17	-164.52	4380
213 02:28:25	169.94	4381
213 04:10:32	144.41	4382
213 05:52:39	118.89	4383
213 07:34:47	93.35	4384
213 09:16:54	67.83	4385
213 10:59:02	42.29	4386
213 12:41:09	16.76	4387
213 14:23:16	-8.76	4388
213 16:05:24	-34.30	4389
213 17:47:31	-59.82	4390
213 19:29:39	-85.36	4391
213 21:11:46	-110.89	4392
213 22:53:54	-136.42	4393

214 01:33:57	-132.44	23894
214 03:16:00	-157.95	23895
214 04:58:03	176.54	23896
214 06:40:06	151.03	23897
214 08:22:09	125.52	23898
214 10:04:12	100.00	23899
214 11:46:15	74.49	23900
214 13:28:18	48.98	23901
214 15:10:21	23.47	23902
214 16:52:24	-2.04	23903
214 18:34:27	-27.55	23904
214 20:16:30	-53.06	23905
214 21:58:33	-78.57	23906
214 23:40:36	-104.08	23907

214 00:20:06	-71.99	14920
214 02:01:22	-97.30	14921
214 03:42:38	-122.62	14922
214 05:23:54	-147.94	14923
214 07:05:10	-173.26	14924
214 08:46:26	161.42	14925
214 10:27:41	136.12	14926
214 12:08:57	110.80	14927
214 13:50:13	85.48	14928
214 15:31:29	60.17	14929
214 17:12:45	34.85	14930
214 18:54:01	9.53	14931
214 20:35:17	-15.79	14932
214 22:16:33	-41.11	14933
214 23:57:48	-66.41	14934

214 00:36:01	-161.95	4394
214 02:18:08	172.53	4395
214 04:00:16	146.99	4396
214 05:42:23	121.46	4397
214 07:24:31	95.92	4398
214 09:06:38	70.40	4399
214 10:48:45	44.88	4400
214 12:30:53	19.34	4401
214 14:13:00	-6.19	4402
214 15:55:08	-31.73	4403
214 17:37:15	-57.25	4404
214 19:19:23	-82.79	4405
214 21:01:30	-108.31	4406
214 22:43:37	-133.84	4407

215 01:22:39	-129.59	23908
215 03:04:42	-155.10	23909
215 04:46:45	179.39	23910
215 06:28:48	153.88	23911
215 08:10:51	128.37	23912
215 09:52:54	102.86	23913
215 11:34:57	77.35	23914
215 13:17:00	51.84	23915
215 14:59:03	26.33	23916
215 16:41:06	.82	23917
215 18:23:09	-24.69	23918
215 20:05:12	-50.20	23919
215 21:47:15	-75.71	23920
215 23:29:18	-101.22	23921

215 01:39:04	-91.73	14935
215 03:20:20	-117.05	14936
215 05:01:36	-142.36	14937
215 06:42:52	-167.68	14938
215 08:24:08	167.00	14939
215 10:05:24	141.68	14940
215 11:46:40	116.36	14941
215 13:27:56	91.05	14942
215 15:09:11	65.74	14943
215 16:50:27	40.42	14944
215 18:31:43	15.10	14945
215 20:12:59	-10.21	14946
215 21:54:15	-35.53	14947
215 23:35:31	-60.85	14948

215 00:23:45	-159.38	4408
215 02:07:52	175.10	4409
215 03:50:00	149.56	4410
215 05:32:07	124.04	4411
215 07:14:14	98.51	4412
215 08:56:22	72.97	4413
215 10:38:29	47.45	4414
215 12:20:37	21.91	4415
215 14:02:44	-3.61	4416
215 15:44:52	-29.15	4417
215 17:26:59	-54.68	4418
215 19:09:06	-80.20	4419
215 20:51:14	-105.74	4420
215 22:33:21	-131.27	4421

216 01:11:21	-126.73	23922
216 02:53:24	-152.24	23923
216 04:35:27	-177.75	23924
216 06:17:30	156.74	23925
216 07:59:33	131.23	23926
216 09:41:36	105.71	23927
216 11:23:39	80.20	23928
216 13:05:42	54.69	23929
216 14:47:45	29.18	23930
216 16:29:47	3.69	23931
216 18:11:50	-21.82	23932
216 19:53:53	-47.33	23933
216 21:35:56	-72.84	23934
216 23:17:59	-98.35	23935

216 01:16:47	-86.17	14949
216 02:58:03	-111.49	14950
216 04:39:19	-136.80	14951
216 06:20:34	-162.11	14952
216 08:01:50	172.57	14953
216 09:43:06	147.26	14954
216 11:24:22	121.94	14955
216 13:05:38	96.62	14956
216 14:46:54	71.30	14957
216 16:28:10	45.98	14958
216 18:09:26	20.67	14959
216 19:50:41	-4.64	14960
216 21:31:57	-29.96	14961
216 23:13:13	-55.28	14962

216 00:15:29	-156.80	4422
216 01:57:36	177.67	4423
216 03:39:43	152.15	4424
216 05:21:51	126.61	4425
216 07:03:58	101.08	4426
216 08:46:06	75.55	4427
216 10:28:13	50.02	4428
216 12:10:20	24.50	4429
216 13:52:28	-1.04	4430
216 15:34:35	-26.57	4431
216 17:16:43	-52.10	4432
216 18:58:50	-77.63	4433
216 20:40:58	-103.17	4434
216 22:23:05	-128.69	4435

SATELLITE C1						SATELLITE C2						SATELLITE C3														
Ascending Node Predictions						Ascending Node Predictions						Ascending Node Predictions														
Predicting for 183 days						Predicting for 183 days						Predicting for 183 days														
TIME (GMT)			E LONG			ORBIT			TIME (GMT)			ORBIT			TIME (GMT)											
day	hr	mn	sc	deg	dg	day	hr	mn	sc	deg	dg	day	hr	mn	sc	deg	dg									
217 00:27:22	-147.95	35445	217 00:10:08	-70.23	31926	217 00:10:27	-20.84	25667	217 02:12:43	-174.41	35446	217 01:55:23	-47.20	25668	217 03:58:04	159.13	35447	217 03:39:53	-122.91	31928	217 03:40:18	-73.56	25669			
217 05:43:25	132.67	35448	217 05:24:45	-149.26	31929	217 05:25:14	-99.91	25670	217 07:28:46	106.21	35449	217 07:09:37	-175.60	31930	217 07:10:09	-126.27	25671	217 09:14:06	79.74	35450	217 08:54:29	158.06	31931	217 08:55:04	-152.63	25672
217 10:59:27	53.28	35451	217 10:39:22	131.72	31932	217 10:40:00	-178.98	25673	217 12:44:48	26.82	35452	217 12:24:14	105.37	31933	217 12:24:55	154.66	25674	217 14:30:09	.36	35453	217 14:09:06	79.03	31934	217 14:09:51	128.31	25675
217 16:15:29	-26.11	35454	217 15:53:58	52.68	31935	217 15:54:46	101.95	25676	217 18:00:50	-52.57	35455	217 17:38:50	26.34	31936	217 17:39:42	75.59	25677	217 19:46:11	-79.03	35456	217 19:23:43	-.00	31937	217 19:24:37	49.24	25678
217 21:31:32	-105.49	35457	217 21:08:35	-26.34	31938	217 21:09:32	22.88	25679	217 23:16:53	-131.95	35458	217 22:53:27	-52.69	31939	217 22:54:28	-3.48	25680									
218 01:02:13	-158.42	35459	218 00:38:19	-79.03	31940	218 00:39:23	-29.83	25681	218 02:47:34	175.12	35460	218 02:23:12	-105.37	31941	218 02:24:19	-56.19	25682	218 04:32:55	148.66	35461	218 04:08:04	-131.72	31942	218 04:09:14	-82.55	25683
218 06:18:16	122.20	35462	218 05:52:56	-158.06	31943	218 05:54:10	-108.90	25684	218 08:03:36	95.73	35463	218 07:37:48	175.60	31944	218 07:39:05	-135.26	25685	218 09:48:57	69.27	35464	218 09:22:40	149.25	31945	218 09:24:00	-161.62	25686
218 11:34:18	42.81	35465	218 11:07:33	122.91	31946	218 11:08:56	172.03	25687	218 13:19:39	16.35	35466	218 12:52:25	96.57	31947	218 12:53:51	145.67	25688	218 15:05:00	-10.11	35467	218 14:37:17	70.22	31948	218 14:38:47	119.32	25689
218 16:50:20	-36.58	35468	218 16:22:09	43.88	31949	218 16:23:42	92.96	25690	218 18:35:41	-63.04	35469	218 18:07:01	17.54	31950	218 18:08:38	66.60	25691	218 20:21:02	-89.50	35470	218 19:51:54	-8.80	31951	218 19:53:33	40.25	25692
218 22:06:23	-115.96	35471	218 21:36:46	-35.15	31952	218 21:38:28	13.89	25693	218 23:51:43	-142.43	35472	218 23:21:38	-61.49	31953	218 23:23:24	-12.47	25694									
219 01:37:04	-168.89	35473	219 01:06:30	-87.84	31954	219 01:08:19	-38.82	25695	219 03:22:25	164.65	35474	219 02:51:23	-114.18	31955	219 02:53:15	-65.18	25696	219 05:07:46	138.19	35475	219 04:36:15	-140.52	31956	219 04:38:10	-91.54	25697
219 06:53:07	111.72	35476	219 06:21:07	-166.86	31957	219 06:23:06	-117.89	25698	219 08:38:27	85.26	35477	219 08:05:59	166.79	31958	219 08:08:01	-144.25	25699	219 10:23:48	58.86	35478	219 09:50:51	140.45	31959	219 09:52:56	-170.61	25700
219 12:09:09	32.34	35479	219 11:35:44	114.11	31960	219 11:37:52	163.04	25701	219 13:34:30	5.87	35480	219 13:20:36	87.76	31961	219 13:22:47	136.68	25702	219 15:39:50	-20.59	35481	219 15:05:28	61.42	31962	219 15:07:43	110.33	25703
219 17:25:11	-47.05	35482	219 16:50:20	35.08	31963	219 16:52:38	83.97	25704	219 19:10:32	-73.51	35483	219 18:35:12	8.73	31964	219 18:37:34	57.61	25705	219 20:55:53	-99.97	35484	219 20:20:05	-17.61	31965	219 20:22:29	31.26	25706
219 22:41:14	-126.44	35485	219 22:04:57	-43.95	31966	219 22:07:24	4.90	25707	219 23:49:49	-70.30	31967	219 23:52:20	-21.46	25708												
220 00:26:34	-152.90	35486	220 01:34:41	-96.64	31968	220 01:37:15	-47.81	25709	220 02:11:55	-179.36	35487	220 03:19:34	-122.98	31969	220 03:22:11	-74.17	25710	220 03:57:16	154.18	35488	220 05:04:26	-149.32	31970	220 05:07:06	-100.53	25711
220 05:42:37	127.71	35489	220 06:49:18	-175.67	31971	220 06:52:01	-126.89	25712	220 07:27:58	101.25	35490	220 08:34:10	157.99	31972	220 08:36:57	-153.24	25713	220 09:13:18	74.79	35491	220 10:19:02	131.64	31973	220 10:21:52	-179.60	25714
220 10:58:39	48.33	35492	220 12:03:55	105.30	31974	220 12:06:48	154.05	25715	220 12:44:00	21.86	35493	220 13:48:47	78.96	31975	220 13:51:43	127.69	25716	220 14:29:21	-4.60	35494	220 15:33:39	52.62	31976	220 15:36:39	101.33	25717
220 16:14:41	-31.06	35495	220 17:18:31	26.27	31977	220 17:21:34	74.98	25718	220 18:00:02	-57.52	35496	220 19:03:24	-.07	31978	220 19:06:29	48.62	25719	220 19:45:23	-83.99	35497	220 20:48:16	-26.41	31979	220 20:51:25	22.26	25720
220 21:30:44	-110.45	35498	220 22:33:08	-52.76	31980	220 22:36:20	-4.09	25721	220 23:16:05	-136.91	35499															

SATELLITE S2

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

217 01:00:02	-123.86	23936
217 02:42:03	-149.38	23937
217 04:24:08	-174.89	23938
217 06:06:11	159.60	23939
217 07:48:14	134.09	23940
217 09:30:17	108.58	23941
217 11:12:20	83.07	23942
217 12:54:23	57.56	23943
217 14:36:26	32.05	23944
217 16:18:29	6.54	23945
217 18:00:32	-18.97	23946
217 19:42:35	-44.48	23947
217 21:24:38	-69.99	23948
217 23:06:41	-95.50	23949

SATELLITE S3

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

217 00:54:29	-80.59	14963
217 02:35:45	-105.91	14964
217 04:17:01	-131.23	14965
217 05:58:17	-156.55	14966
217 07:39:33	178.13	14967
217 09:20:49	152.82	14968
217 11:02:04	127.51	14969
217 12:43:20	102.19	14970
217 14:24:36	76.88	14971
217 16:05:52	51.56	14972
217 17:47:08	26.24	14973
217 19:28:24	.92	14974
217 21:09:40	-24.40	14975
217 22:50:56	-49.71	14976

SATELLITE S4

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

217 00:05:12	-134.22	4436
217 01:47:20	-179.76	4437
217 03:29:27	154.72	4438
217 05:11:35	129.18	4439
217 06:53:42	103.66	4440
217 08:35:49	78.13	4441
217 10:17:57	52.59	4442
217 12:00:04	27.07	4443
217 13:42:12	1.53	4444
217 15:24:19	-23.99	4445
217 17:06:27	-49.53	4446
217 18:48:34	-75.06	4447
217 20:30:41	-100.58	4448
217 22:12:49	-126.12	4449
217 23:54:56	-151.64	4450

218 00:48:44	-121.01	23950
218 02:30:47	-146.52	23951
218 04:12:50	-172.03	23952
218 05:54:53	162.46	23953
218 07:36:56	136.95	23954
218 09:18:59	111.44	23955
218 11:01:02	85.93	23956
218 12:43:05	60.42	23957
218 14:25:08	34.91	23958
218 16:07:11	9.40	23959
218 17:49:14	-16.11	23960
218 19:31:17	-41.62	23961
218 21:13:20	-67.13	23962
218 22:55:23	-92.64	23963

218 00:32:11	-75.02	14977
218 02:13:27	-100.34	14978
218 03:54:43	-125.66	14979
218 05:35:59	-150.97	14980
218 07:17:15	-176.29	14981
218 08:58:31	158.39	14982
218 10:39:47	133.07	14983
218 12:21:03	107.75	14984
218 14:02:19	82.44	14985
218 15:43:34	57.13	14986
218 17:24:50	31.81	14987
218 19:06:06	6.50	14988
218 20:47:22	-18.82	14989
218 22:28:38	-44.14	14990

218 01:37:04	-177.18	4451
218 03:19:11	157.29	4452
218 05:01:18	131.77	4453
218 06:43:26	106.23	4454
218 08:25:33	80.70	4455
218 10:07:41	55.17	4456
218 11:49:48	29.64	4457
218 13:31:55	4.12	4458
218 15:14:03	-21.42	4459
218 16:56:10	-46.95	4460
218 18:38:18	-72.48	4461
218 20:20:25	-98.01	4462
218 22:02:33	-123.55	4463
218 23:44:40	-149.07	4464

219 00:37:26	-118.16	23964
219 02:19:29	-143.67	23965
219 04:01:32	-169.18	23966
219 05:43:35	165.31	23967
219 07:25:38	139.90	23968
219 09:07:41	114.29	23969
219 10:49:44	88.78	23970
219 12:31:47	63.27	23971
219 14:13:50	37.76	23972
219 15:55:53	12.25	23973
219 17:37:56	-13.26	23974
219 19:19:59	-38.77	23975
219 21:02:02	-64.28	23976
219 22:44:05	-89.79	23977

219 00:09:34	-69.46	14991
219 01:51:10	-94.78	14992
219 03:32:26	-120.09	14993
219 05:13:42	-145.41	14994
219 06:54:57	-170.72	14995
219 08:36:13	163.96	14996
219 10:17:29	138.65	14997
219 11:58:45	113.33	14998
219 13:40:01	88.01	14999
219 15:21:17	62.69	15000
219 17:02:33	37.37	15001
219 18:43:49	12.06	15002
219 20:25:04	-13.25	15003
219 22:06:20	-38.57	15004
219 23:47:36	-63.89	15005

219 01:26:47	-174.60	4463
219 03:08:55	159.87	4466
219 04:51:02	134.34	4467
219 06:33:10	106.80	4468
219 08:15:17	83.28	4469
219 09:57:24	57.75	4470
219 11:39:32	32.21	4471
219 13:21:39	6.69	4472
219 15:03:47	-18.83	4473
219 16:45:54	-44.37	4474
219 18:28:02	-69.91	4475
219 20:10:09	-95.44	4476
219 21:52:16	-120.96	4477
219 23:34:24	-146.50	4478

220 00:26:08	-115.30	23978
220 02:08:11	-140.81	23979
220 03:50:14	-166.32	23980
220 05:32:17	168.17	23981
220 07:14:20	142.66	23982
220 08:56:23	117.15	23983
220 10:38:26	91.64	23984
220 12:20:29	66.13	23985
220 14:02:32	40.62	23986
220 15:44:35	15.11	23987
220 17:26:38	-10.40	23988
220 19:08:41	-35.91	23989
220 20:50:44	-61.42	23990
220 22:32:47	-86.93	23991

220 01:28:52	-89.20	15006
220 03:10:08	-114.52	15007
220 04:51:24	-139.84	15008
220 06:32:40	-165.16	15009
220 08:13:56	169.52	15010
220 09:55:12	144.21	15011
220 11:36:27	118.90	15012
220 13:17:43	93.58	15013
220 14:58:59	68.27	15014
220 16:40:15	42.95	15015
220 18:21:31	17.63	15016
220 20:02:47	-7.69	15017
220 21:44:03	-33.01	15018
220 23:25:19	-58.32	15019

220 01:16:31	-172.02	4479
220 02:58:39	162.44	4480
220 04:40:46	136.91	4481
220 06:22:53	111.39	4482
220 08:05:01	85.85	4483
220 09:47:08	60.33	4484
220 11:29:16	34.79	4485
220 13:11:23	9.26	4486
220 14:53:30	-16.26	4487
220 16:35:38	-41.80	4488
220 18:17:45	-67.33	4489
220 19:59:53	-92.86	4490
220 21:42:00	-118.39	4491
220 23:24:08	-143.93	4492

SATELLITE C1

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) **E LONG** **ORBIT**
 day hr mn sc deg dg

221	01	01	:23	-163.37	35500
221	02	46	:46	170.16	35501
221	04	32	:07	143.70	35502
221	06	17	:28	117.24	35503
221	08	02	:48	90.78	35504
221	09	48	:09	64.32	35505
221	11	33	:30	37.85	35506
221	13	18	:51	11.39	35507
221	15	04	:12	-15.07	35508
221	16	49	:32	-41.53	35509
221	18	34	:53	-68.00	35510
221	20	20	:14	-94.46	35511
221	22	05	:35	-120.92	35512
221	23	50	:56	-147.38	35513

SATELLITE C2

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) **E LONG** **ORBIT**
 day hr mn sc deg dg

221	00	18	:00	-79.10	31981
221	02	02	:52	-105.44	31982
221	03	47	:45	-131.78	31983
221	05	32	:37	-158.13	31984
221	07	17	:29	-175.53	31985
221	09	02	:21	-149.18	31986
221	10	47	:14	-122.84	31987
221	12	32	:06	-96.50	31988
221	14	16	:58	-70.16	31989
221	16	01	:50	-43.81	31990
221	17	46	:42	-17.47	31991
221	19	31	:35	-8.87	31992
221	21	16	:27	-35.22	31993
221	23	01	:19	-61.56	31994

SATELLITE C3

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) **E LONG** **ORBIT**
 day hr mn sc deg dg

221	00	21	:16	-30.45	25722
221	02	06	:11	-56.81	25723
221	03	51	:07	-83.16	25724
221	05	36	:02	-109.52	25725
221	07	20	:57	-135.88	25726
221	09	05	:53	-162.23	25727
221	10	50	:48	-171.91	25728
221	12	35	:44	-145.06	25729
221	14	20	:39	-118.70	25730
221	16	05	:35	-92.34	25731
221	17	50	:30	-65.99	25732
221	19	35	:25	-39.63	25733
221	21	20	:21	-13.27	25734
221	23	05	:16	-13.08	25735

222	01	36	:16	-173.85	35514
222	03	21	:37	159.69	35515
222	05	06	:58	133.23	35516
222	06	52	:19	106.77	35517
222	08	37	:39	80.30	35518
222	10	23	:00	53.84	35519
222	12	08	:21	27.38	35520
222	13	53	:42	.92	35521
222	15	39	:03	-25.54	35522
222	17	24	:23	-52.01	35523
222	19	09	:44	-78.47	35524
222	20	55	:05	-104.93	35525
222	22	40	:26	-131.39	35526

222	00	46	:11	-87.90	31995
222	02	31	:03	-114.25	31996
222	04	15	:56	-140.59	31997
222	06	00	:48	-166.93	31998
222	07	45	:40	166.72	31999
222	09	30	:32	140.38	32000
222	11	15	:25	114.04	32001
222	13	00	:17	87.69	32002
222	14	45	:09	61.35	32003
222	16	30	:01	35.01	32004
222	18	14	:53	8.66	32005
222	19	59	:46	-17.68	32006
222	21	44	:38	-44.02	32007
222	23	29	:30	-70.37	32008

222	00	50	:12	-39.44	25736
222	02	35	:07	-65.80	25737
222	04	20	:03	-92.15	25738
222	06	04	:58	-118.51	25739
222	07	49	:53	-144.87	25740
222	09	34	:49	-171.22	25741
222	11	19	:44	162.42	25742
222	13	04	:40	136.07	25743
222	14	49	:35	109.71	25744
222	16	34	:31	83.35	25745
222	18	19	:26	57.00	25746
222	20	04	:21	30.64	25747
222	21	49	:17	4.28	25748
222	23	34	:12	-22.07	25749

223	00	25	:46	-157.86	35527
223	02	11	:07	175.68	35528
223	03	56	:28	149.22	35529
223	05	41	:49	122.76	35530
223	07	27	:10	96.30	35531
223	09	12	:30	69.83	35532
223	10	57	:51	43.37	35533
223	12	43	:12	16.91	35534
223	14	28	:33	-9.55	35535
223	16	13	:54	-36.01	35536
223	17	59	:14	-62.48	35537
223	19	44	:35	-88.94	35538
223	21	29	:56	-115.40	35539
223	23	15	:17	-141.86	35540

223	01	14	:22	-96.71	32009
223	02	59	:15	-123.05	32010
223	04	44	:07	-149.39	32011
223	06	28	:59	-175.74	32012
223	08	13	:51	-157.92	32013
223	09	58	:43	131.57	32014
223	11	43	:36	105.23	32015
223	13	28	:28	78.89	32016
223	15	13	:20	52.55	32017
223	16	58	:12	26.20	32018
223	18	43	:05	-.14	32019
223	20	27	:57	-26.48	32020
223	22	12	:49	-52.83	32021
223	23	57	:41	-79.17	32022

223	01	19	:08	-48.43	25750
223	03	04	:03	-74.79	25751
223	04	48	:58	-101.14	25752
223	06	33	:54	-127.56	25753
223	08	18	:49	-153.86	25754
223	10	03	:45	179.79	25755
223	11	48	:40	153.43	25756
223	13	33	:36	127.08	25757
223	15	18	:31	100.72	25758
223	17	03	:26	74.36	25759
223	18	48	:22	48.01	25760
223	20	33	:17	21.65	25761
223	22	18	:13	-4.71	25762

224	01	00	:37	-168.33	35541
224	02	45	:58	165.21	35542
224	04	31	:19	138.75	35543
224	06	16	:40	112.29	35544
224	08	02	:01	85.82	35545
224	09	47	:21	59.36	35546
224	11	32	:42	32.90	35547
224	13	18	:03	6.44	35548
224	15	03	:24	-20.03	35549
224	16	48	:45	-46.49	35550
224	18	34	:05	-72.95	35551
224	20	19	:26	-99.41	35552
224	22	04	:47	-125.88	35553
224	23	50	:08	-152.34	35554

224	01	42	:33	-105.51	32023
224	03	27	:26	-131.85	32024
224	05	12	:18	-158.20	32025
224	06	57	:10	175.46	32026
224	08	42	:02	149.11	32027
224	10	26	:55	122.77	32028
224	12	11	:47	96.43	32029
224	13	56	:39	70.09	32030
224	15	41	:31	43.74	32031
224	17	26	:23	17.40	32032
224	19	11	:16	-8.94	32033
224	20	56	:08	-35.29	32034
224	22	41	:00	-61.63	32035

224	00	03	:08	-31.06	25763
224	01	48	:04	-57.42	25764
224	03	32	:59	-83.78	25765
224	05	17	:54	-110.13	25766
224	07	02	:50	-136.49	25767
224	08	47	:45	-162.85	25768
224	10	32	:41	170.80	25769
224	12	17	:36	144.44	25770
224	14	02	:32	118.09	25771
224	15	47	:27	91.73	25772
224	17	32	:22	65.37	25773
224	19	17	:18	39.02	25774
224	21	02	:13	12.66	25775
224	22	47	:09	-13.70	25776

SATELLITE S2							SATELLITE S3							SATELLITE S4							
Ascending Node Predictions							Ascending Node Predictions							Ascending Node Predictions							
Predicting for 183 days							Predicting for 183 days							Predicting for 183 days							
TIME (GMT)	E	LONG	ORBIT	TIME (GMT)	E	LONG	ORBIT	TIME (GMT)	E	LONG	ORBIT	TIME (GMT)	E	LONG	ORBIT	TIME (GMT)	E	LONG	ORBIT		
day	hr	mn	sc	day	hr	mn	sc	day	hr	mn	sc	day	hr	mn	sc	day	hr	mn	sc		
deg	dg			deg	dg			deg	dg			deg	dg			deg	dg				
221 00:14:50	-112.45	23992	221 01:06:34	-83.63	15020	221 01:06:15	-169.45	4493	221 02:48:22	165.02	4494	221 02:48:22	165.02	4494	221 02:48:22	165.02	4494	221 02:48:22	165.02	4494	
221 01:56:53	-137.96	23993	221 02:47:50	-108.95	15021	221 04:30:30	139.49	4495	221 06:12:37	113.96	4496	221 07:54:45	88.42	4497	221 07:54:45	88.42	4497	221 07:54:45	88.42	4497	
221 03:38:56	-163.47	23994	221 04:29:06	-134.27	15022	221 09:36:52	62.90	4498	221 11:18:59	37.37	4499	221 13:01:07	11.83	4500	221 14:43:14	-13.69	4501	221 14:43:14	-13.69	4501	
221 05:20:59	171.02	23995	221 06:10:22	-159.58	15023	221 16:25:22	-39.23	4502	221 16:25:22	-39.23	4502	221 18:07:29	-64.75	4503	221 19:49:36	-90.28	4504	221 21:31:44	-115.82	4505	
221 07:03:02	145.51	23996	221 07:51:38	175.10	15024	221 23:13:51	-141.34	4506	221 23:13:51	-141.34	4506										
221 08:45:05	120.00	23997	221 09:32:54	149.78	15025																
221 10:27:08	94.49	23998	221 11:14:10	124.46	15026																
221 12:09:10	69.00	23999	221 12:55:26	99.14	15027																
221 13:51:13	43.49	24000	221 14:36:42	73.83	15028																
221 15:33:16	17.98	24001	221 16:17:57	48.52	15029																
221 17:15:19	-7.54	24002	221 17:59:13	23.20	15030																
221 18:57:22	-33.05	24003	221 19:40:29	-2.11	15031																
221 20:39:25	-58.56	24004	221 21:21:45	-27.43	15032																
221 22:21:28	-84.07	24005	221 23:03:01	-52.75	15033																
222 00:03:31	-109.58	24006	222 00:44:17	-78.07	15034	222 00:55:59	-166.88	4507	222 02:38:06	167.60	4508	222 02:38:06	167.60	4508	222 02:38:06	167.60	4508	222 02:38:06	167.60	4508	
222 01:45:34	-135.09	24007	222 02:25:33	-103.39	15035	222 04:20:14	142.06	4509	222 06:02:21	116.53	4510	222 07:44:28	91.01	4511	222 09:26:36	65.47	4512	222 09:26:36	65.47	4512	
222 03:27:37	-160.60	24008	222 04:06:49	-128.70	15036	222 11:08:43	39.95	4513	222 12:50:51	14.41	4514	222 14:32:58	-11.12	4515	222 16:15:05	-36.64	4516	222 17:57:13	-62.18	4517	
222 05:09:40	173.89	24009	222 05:48:04	-154.01	15037	222 19:39:20	-87.71	4518	222 20:59:27	-87.71	4518	222 21:21:28	-113.24	4519	222 23:03:35	-138.77	4520	222 23:03:35	-138.77	4520	
222 06:51:43	148.38	24010	222 07:29:20	-179.33	15038																
222 08:33:46	122.87	24011	222 09:10:36	155.35	15039																
222 10:15:49	97.36	24012	222 10:51:52	130.04	15040																
222 11:57:52	71.85	24013	222 12:33:08	104.72	15041																
222 13:39:55	46.34	24014	222 14:14:24	79.40	15042																
222 15:21:58	20.83	24015	222 15:55:40	54.08	15043																
222 17:04:01	-4.68	24016	222 17:36:56	28.76	15044																
222 18:46:04	-30.19	24017	222 19:18:12	3.45	15045																
222 20:28:07	-55.70	24018	222 20:59:27	-21.86	15046																
222 22:10:10	-81.21	24019	222 22:40:43	-47.18	15047																
222 23:52:13	-106.72	24020																			
223 01:34:16	-132.23	24021	223 00:21:59	-72.49	15048	223 00:45:42	-164.29	4521	223 02:27:50	170.17	4522	223 04:09:57	144.64	4523	223 05:52:05	119.11	4524	223 07:34:12	93.58	4525	
223 03:16:19	-157.74	24022	223 02:03:15	-97.81	15049	223 09:16:20	68.04	4526	223 10:58:27	42.52	4527	223 12:40:34	16.99	4528	223 14:22:42	-8.55	4529	223 16:04:49	-34.07	4530	
223 04:58:22	176.75	24023	223 03:44:31	-123.13	15050	223 17:46:57	-59.61	4531	223 19:29:04	-85.13	4532	223 21:11:11	-110.66	4533	223 22:53:19	-136.20	4534	223 22:53:19	-136.20	4534	
223 06:40:25	151.24	24024	223 05:25:47	-148.45	15051																
223 08:22:28	125.73	24025	223 07:07:03	-173.77	15052																
223 10:04:31	100.22	24026	223 08:48:19	160.91	15053																
223 11:46:34	74.71	24027	223 10:29:34	135.61	15054																
223 13:28:37	49.20	24028	223 12:10:50	110.29	15055																
223 15:10:40	23.68	24029	223 13:52:06	84.97	15056																
223 16:52:43	-1.83	24030	223 15:33:22	59.66	15057																
223 18:34:46	-27.34	24031	223 17:14:38	34.34	15058																
223 20:16:49	-52.85	24032	223 18:55:54	9.02	15059																
223 21:58:52	-78.36	24033	223 20:37:10	-16.30	15060																
223 23:40:55	-103.87	24034	223 22:18:26	-41.62	15061																
			223 23:59:41	-66.92	15062																
224 01:22:58	-129.38	24035	224 01:40:57	-92.24	15063	224 00:35:26	-161.72	4535	224 02:17:34	172.74	4536	224 03:59:41	147.22	4537	224 05:41:48	121.69	4538	224 07:23:56	96.15	4539	
224 03:05:01	-154.89	24036	224 03:22:13	-117.56	15064	224 09:06:03	70.63	4540	224 10:48:11	45.09	4541	224 12:30:18	19.57	4542	224 14:12:26	-5.97	4543	224 15:54:33	-31.50	4544	
224 04:47:04	179.60	24037	224 05:03:29	-142.88	15065	224 16:43:40	-107.02	4545	224 17:36:40	-57.02	4545	224 19:18:48	-82.56	4546	224 21:00:55	-108.09	4547	224 22:43:03	-133.62	4548	
224 06:29:07	154.09	24038	224 06:44:45	-168.19	15066																
224 08:11:10	128.58	24039	224 08:26:01	166.49	15067																
224 09:53:13	103.07	24040	224 10:07:17	141.17	15068																
224 11:35:16	77.56	24041	224 11:48:33	115.85	15069																
224 13:17:19	52.05	24042	224 13:29:49	90.53	15070																
224 14:59:22	26.54	24043	224 15:11:04	65.23	15071																
224 16:41:25	1.03	24044	224 16:52:20	39.91	15072																
224 18:23:28	-24.48	24045	224 18:33:36	14.59	15073																
224 20:05:31	-49.99	24046	224 20:14:52	-10.72	15074																
224 21:47:34	-75.50	24047	224 21:56:08	-36.04	15075																
224 23:29:37	-101.01	24048	224 23:37:24	-61.36	15076																

SATELLITE C1

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) **E LONG** **ORBIT**
day hr mn sc **deg dg**

225 01:35:28	-178.80	35555
225 03:20:49	154.74	35556
225 05:06:10	128.27	35557
225 06:51:31	101.81	35558
225 08:36:52	75.35	35559
225 10:22:12	48.89	35560
225 12:07:33	22.42	35561
225 13:52:54	-4.04	35562
225 15:38:15	-30.50	35563
225 17:23:36	-56.96	35564
225 19:08:56	-83.43	35565
225 20:54:17	-109.89	35566
225 22:39:38	-136.35	35567

SATELLITE C2

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) **E LONG** **ORBIT**
day hr mn sc **deg dg**

225 00:23:52	-87.97	32036
225 02:10:45	-114.32	32037
225 03:55:37	-140.66	32038
225 05:40:29	-167.00	32039
225 07:25:21	166.65	32040
225 09:10:14	140.31	32041
225 10:55:06	113.97	32042
225 12:39:58	87.62	32043
225 14:24:50	61.28	32044
225 16:09:42	34.94	32045
225 17:54:35	8.66	32046
225 19:39:27	-17.75	32047
225 21:24:19	-44.09	32048
225 23:09:11	-70.44	32049

SATELLITE C3

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) **E LONG** **ORBIT**
day hr mn sc **deg dg**

225 00:32:04	-40.05	25777
225 02:16:59	-66.41	25778
225 04:01:55	-92.77	25779
225 05:46:50	-119.12	25780
225 07:31:46	-145.48	25781
225 09:16:41	-171.84	25782
225 11:01:37	161.81	25783
225 12:46:32	135.45	25784
225 14:31:27	109.09	25785
225 16:16:23	82.74	25786
225 18:01:18	56.38	25787
225 19:46:14	30.03	25788
225 21:31:09	3.67	25789
225 23:16:05	-22.69	25790

226 00:24:59	-162.81	35568
226 02:10:19	170.73	35569
226 03:55:40	144.26	35570
226 05:41:01	117.80	35571
226 07:26:22	91.34	35572
226 09:11:43	64.88	35573
226 10:57:03	38.41	35574
226 12:42:24	11.95	35575
226 14:27:45	-14.51	35576
226 16:13:06	-40.97	35577
226 17:58:27	-67.43	35578
226 19:43:47	-93.90	35579
226 21:29:08	-120.36	35580
226 23:14:29	-146.82	35581

226 00:54:04	-96.78	32050
226 02:38:56	-123.12	32051
226 04:23:48	-149.46	32052
226 06:08:40	-175.81	32053
226 07:53:32	157.85	32054
226 09:38:25	131.51	32055
226 11:23:17	105.16	32056
226 13:08:09	78.82	32057
226 14:53:01	52.48	32058
226 16:37:54	26.13	32059
226 18:22:46	-21	32060
226 20:07:38	-26.55	32061
226 21:52:30	-52.90	32062
226 23:37:22	-79.24	32063

226 01:01:00	-49.04	25791
226 02:45:55	-75.40	25792
226 04:30:51	-101.76	25793
226 06:15:46	-128.12	25794
226 08:00:42	-154.47	25795
226 09:45:37	179.17	25796
226 11:30:32	152.81	25797
226 13:15:28	126.46	25798
226 15:00:23	100.10	25799
226 16:45:19	73.75	25800
226 18:30:14	47.39	25801
226 20:15:10	21.04	25802
226 22:00:05	-5.32	25803
226 23:45:00	-31.68	25804

227 00:59:50	-173.28	35582
227 02:45:10	160.25	35583
227 04:30:31	133.79	35584
227 06:15:52	107.33	35585
227 08:01:13	80.87	35586
227 09:46:34	54.41	35587
227 11:31:54	27.94	35588
227 13:17:15	1.48	35589
227 15:02:36	-24.98	35590
227 16:47:57	-51.44	35591
227 18:33:18	-77.91	35592
227 20:18:38	-104.37	35593
227 22:03:59	-130.83	35594
227 23:49:20	-157.29	35595

227 01:22:15	-105.58	32064
227 03:07:07	-131.93	32065
227 04:51:59	-158.27	32066
227 06:36:51	175.39	32067
227 08:21:44	149.05	32068
227 10:06:36	122.70	32069
227 11:51:28	96.36	32070
227 13:36:20	70.01	32071
227 15:21:13	43.67	32072
227 17:06:05	17.33	32073
227 18:50:57	-9.01	32074
227 20:35:49	-35.36	32075
227 22:20:41	-61.70	32076

227 01:29:56	-58.03	25805
227 03:14:51	-84.39	25806
227 04:59:47	-110.75	25807
227 06:44:42	-137.11	25808
227 08:29:38	-163.46	25809
227 10:14:33	170.18	25810
227 11:59:28	143.82	25811
227 13:44:24	117.47	25812
227 15:29:19	91.11	25813
227 17:14:15	64.76	25814
227 18:59:10	38.40	25815
227 20:44:05	12.04	25816
227 22:29:01	-14.31	25817

228 01:34:41	176.24	35596
228 03:20:02	149.78	35597
228 05:05:22	123.32	35598
228 06:50:43	96.86	35599
228 08:36:04	70.39	35600
228 10:21:25	43.93	35601
228 12:06:45	17.47	35602
228 13:52:06	-8.99	35603
228 15:37:27	-35.46	35604
228 17:22:48	-61.92	35605
228 19:08:09	-88.38	35606
228 20:33:29	-114.84	35607
228 22:38:50	-141.31	35608

228 00:05:34	-88.04	32077
228 01:50:26	-114.39	32078
228 03:35:18	-140.73	32079
228 05:20:10	-167.07	32080
228 07:05:03	166.58	32081
228 08:49:55	140.24	32082
228 10:34:47	113.90	32083
228 12:19:39	87.55	32084
228 14:04:31	61.21	32085
228 15:49:24	34.87	32086
228 17:34:16	8.52	32087
228 19:19:08	-17.82	32088
228 21:04:00	-84.16	32089
228 22:48:53	-70.50	32090

228 00:13:56	-40.67	25818
228 01:58:52	-67.02	25819
228 03:43:47	-93.38	25820
228 05:28:43	-119.74	25821
228 07:13:38	-146.10	25822
228 08:58:33	-172.45	25823
228 10:43:29	161.19	25824
228 12:28:24	134.83	25825
228 14:13:20	108.48	25826
228 15:58:15	82.12	25827
228 17:43:11	55.77	25828
228 19:28:06	29.41	25829
228 21:13:01	3.05	25830
228 22:57:57	-23.30	25831

SATELLITE S2

Ascending Node Predictions
 Predicting for 183 days
 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

225	01:11:40	-126.52	24049
225	02:53:43	-152.03	24050
225	04:35:46	-177.54	24051
225	06:17:49	156.95	24052
225	07:59:52	131.44	24053
225	09:41:55	105.93	24054
225	11:23:58	80.42	24055
225	13:06:01	54.90	24056
225	14:48:04	29.39	24057
225	16:30:07	3.88	24058
225	18:12:10	-21.63	24059
225	19:54:13	-47.14	24060
225	21:36:16	-72.65	24061
225	23:18:19	-98.16	24062

SATELLITE S3

Ascending Node Predictions
 Predicting for 183 days
 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

225	01:18:40	-86.68	15077
225	02:59:56	-112.00	15078
225	04:41:11	-137.30	15079
225	06:22:27	-162.62	15080
225	08:03:43	172.06	15081
225	09:44:59	146.74	15082
225	11:26:15	121.43	15083
225	13:07:31	96.11	15084
225	14:48:47	70.79	15085
225	16:30:03	45.47	15086
225	18:11:18	20.17	15087
225	19:52:34	-5.15	15088
225	21:33:50	-30.47	15089
225	23:15:06	-55.79	15090

SATELLITE S4

Ascending Node Predictions
 Predicting for 183 days
 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

225	00:23:10	-159.15	4549
225	02:07:17	175.33	4550
225	03:49:25	149.79	4551
225	05:31:32	124.26	4552
225	07:13:40	98.73	4553
225	08:55:47	73.20	4554
225	10:37:54	47.68	4555
225	12:20:02	22.14	4556
225	14:02:09	-3.39	4557
225	15:44:17	-28.93	4558
225	17:26:24	-54.45	4559
225	19:08:32	-79.99	4560
225	20:50:39	-105.51	4561
225	22:32:46	-131.04	4562

226	01:00:22	-123.67	24063
226	02:42:25	-149.18	24064
226	04:24:27	-174.68	24065
226	06:06:30	159.81	24066
226	07:48:33	134.30	24067
226	09:30:36	108.79	24068
226	11:12:39	83.28	24069
226	12:54:42	57.77	24070
226	14:36:45	32.26	24071
226	16:18:48	6.75	24072
226	18:00:51	-18.76	24073
226	19:42:54	-44.27	24074
226	21:24:57	-69.78	24075
226	23:07:00	-95.29	24076

226	00:36:22	-81.11	15091
226	02:37:38	-106.42	15092
226	04:18:54	-131.74	15093
226	06:00:10	-157.06	15094
226	07:41:26	177.62	15095
226	09:22:41	152.32	15096
226	11:03:57	127.00	15097
226	12:45:13	101.68	15098
226	14:26:29	76.36	15099
226	16:07:45	51.05	15100
226	17:49:01	25.73	15101
226	19:30:17	.41	15102
226	21:11:33	-24.91	15103
226	22:52:48	-50.21	15104

226	00:14:54	-156.38	4563
226	01:57:01	177.90	4564
226	03:39:09	152.36	4565
226	05:21:16	126.84	4566
226	07:03:23	101.31	4567
226	08:45:31	75.77	4568
226	10:27:38	50.25	4569
226	12:09:46	24.71	4570
226	13:51:53	-.81	4571
226	15:34:00	-26.34	4572
226	17:16:08	-51.88	4573
226	18:58:15	-77.40	4574
226	20:40:23	-102.94	4575
226	22:22:30	-128.47	4576

227	00:49:03	-120.80	24077
227	02:31:06	-146.31	24078
227	04:13:09	-171.82	24079
227	05:55:12	162.67	24080
227	07:37:15	137.16	24081
227	09:19:18	111.65	24082
227	11:01:21	86.14	24083
227	12:43:24	60.63	24084
227	14:25:27	35.12	24085
227	16:07:30	9.61	24086
227	17:49:33	-15.90	24087
227	19:31:36	-41.41	24088
227	21:13:39	-66.92	24089
227	22:55:42	-92.43	24090

227	00:34:04	-75.53	15105
227	02:15:20	-100.85	15106
227	03:56:36	-126.17	15107
227	05:37:52	-151.49	15108
227	07:19:08	-176.80	15109
227	09:00:24	157.88	15110
227	10:41:40	132.56	15111
227	12:22:55	107.25	15112
227	14:04:11	81.94	15113
227	15:45:27	56.62	15114
227	17:26:43	31.30	15115
227	19:07:59	5.98	15116
227	20:49:15	-19.34	15117
227	22:30:31	-44.65	15118

227	00:04:37	-153.99	4577
227	01:46:45	-179.53	4578
227	03:28:52	154.95	4579
227	05:11:00	129.41	4580
227	06:53:07	103.88	4581
227	08:35:15	78.35	4582
227	10:17:22	52.82	4583
227	11:59:29	27.30	4584
227	13:41:37	1.76	4585
227	15:23:44	-23.77	4586
227	17:05:52	-49.31	4587
227	18:47:59	-74.83	4588
227	20:30:06	-100.36	4589
227	22:12:14	-125.89	4590
227	23:54:21	-151.42	4591

228	00:37:45	-117.94	24091
228	02:19:48	-143.46	24092
228	04:01:51	-168.97	24093
228	05:43:54	165.52	24094
228	07:25:57	140.01	24095
228	09:08:00	114.50	24096
228	10:50:03	88.99	24097
228	12:32:06	63.48	24098
228	14:14:09	37.97	24099
228	15:56:12	12.46	24100
228	17:38:15	-13.05	24101
228	19:20:18	-38.56	24102
228	21:02:21	-64.07	24103
228	22:44:24	-89.58	24104

228	00:11:47	-69.97	15119
228	01:53:02	-95.28	15120
228	03:34:18	-120.59	15121
228	05:15:34	-145.91	15122
228	06:56:50	-171.23	15123
228	08:38:06	163.45	15124
228	10:19:22	138.13	15125
228	12:00:38	112.81	15126
228	13:41:54	87.50	15127
228	15:23:10	62.18	15128
228	17:04:25	36.87	15129
228	18:45:41	11.56	15130
228	20:26:57	-13.76	15131
228	22:08:13	-39.08	15132
228	23:49:29	-64.40	15133

228	01:36:29	-176.96	4592
228	03:18:36	157.52	4593
228	05:00:43	131.99	4594
228	06:42:51	106.46	4595
228	08:24:58	80.93	4596
228	10:07:06	55.39	4597
228	11:49:13	29.87	4598
228	13:31:21	4.33	4599
228	15:13:28	-21.20	4600
228	16:55:35	-46.72	4601
228	18:37:43	-72.26	4602
228	20:19:50	-97.78	4603
228	22:01:58	-123.32	4604
228	23:44:05	-148.85	4605

SATELLITE C1**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

229 00:24:11	-167.77	35609
229 02:09:32	165.77	35610
229 03:34:53	139.31	35611
229 05:40:13	112.84	35612
229 07:25:34	86.38	35613
229 09:10:55	59.92	35614
229 10:36:16	33.46	35615
229 12:41:37	7.00	35616
229 14:26:57	-19.47	35617
229 16:12:18	-45.93	35618
229 17:57:39	-72.39	35619
229 19:43:00	-98.85	35620
229 21:28:20	-125.32	35621
229 23:13:41	-151.78	35622

SATELLITE C2**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

229 00:33:45	-96.85	32091
229 02:18:37	-123.19	32092
229 04:03:29	-149.54	32093
229 05:48:22	-175.88	32094
229 07:33:14	157.78	32095
229 09:18:06	131.44	32096
229 11:02:58	105.09	32097
229 12:47:50	78.75	32098
229 14:32:43	52.41	32099
229 16:17:35	26.06	32100
229 18:02:27	-28	32101
229 19:47:19	-26.62	32102
229 21:32:12	-52.97	32103
229 23:17:04	-79.31	32104

SATELLITE C3**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

229 00:42:52	-49.66	25832
229 02:27:48	-76.01	25833
229 04:12:43	-102.37	25834
229 05:57:38	-128.73	25835
229 07:42:34	-155.08	25836
229 09:27:29	178.56	25837
229 11:12:25	152.20	25838
229 12:57:20	125.85	25839
229 14:42:16	99.49	25840
229 16:27:11	73.13	25841
229 18:12:06	46.77	25842
229 19:57:02	20.42	25843
229 21:41:57	-5.94	25844
229 23:26:53	-32.29	25845

230 00:39:02	-178.24	35623
230 02:44:23	155.30	35624
230 04:29:44	128.84	35625
230 06:15:04	102.37	35626
230 08:00:25	75.91	35627
230 09:45:46	49.45	35628
230 11:31:07	22.99	35629
230 13:16:28	-3.48	35630
230 15:01:48	-29.94	35631
230 16:47:09	-56.40	35632
230 18:32:30	-82.86	35633
230 20:17:51	-109.33	35634
230 22:03:12	-135.79	35635
230 23:48:32	-162.25	35636

230 01:01:56	-105.65	32105
230 02:46:48	-132.00	32106
230 04:31:41	-158.34	32107
230 06:16:33	175.32	32108
230 08:01:25	148.97	32109
230 09:46:17	122.63	32110
230 11:31:09	96.29	32111
230 13:16:02	69.95	32112
230 15:00:54	43.60	32113
230 16:45:46	17.26	32114
230 18:30:38	-9.09	32115
230 20:15:31	-35.43	32116
230 22:00:23	-61.77	32117
230 23:45:15	-88.12	32118

230 01:11:48	-58.65	25846
230 02:56:43	-85.01	25847
230 04:41:39	-111.36	25848
230 06:26:34	-137.72	25849
230 08:11:30	-164.07	25850
230 09:56:25	169.57	25851
230 11:41:21	143.21	25852
230 13:26:16	116.86	25853
230 15:11:11	90.50	25854
230 16:56:07	64.14	25855
230 18:41:02	37.79	25856
230 20:25:58	11.43	25857
230 22:10:53	-14.93	25858
230 23:55:48	-41.28	25859

231 01:33:53	171.29	35637
231 03:19:14	144.82	35638
231 05:04:35	118.36	35639
231 06:49:56	91.90	35640
231 08:35:16	65.44	35641
231 10:20:37	38.97	35642
231 12:05:58	12.51	35643
231 13:51:19	-13.95	35644
231 15:36:39	-40.41	35645
231 17:22:00	-66.88	35646
231 19:07:21	-93.34	35647
231 20:32:42	-119.80	35648
231 22:38:03	-146.26	35649

231 01:30:07	-114.46	32119
231 03:15:00	-140.80	32120
231 04:59:52	-167.14	32121
231 06:44:44	166.51	32122
231 08:29:36	140.17	32123
231 10:14:28	113.82	32124
231 11:59:21	87.48	32125
231 13:44:13	61.14	32126
231 15:29:05	34.86	32127
231 17:13:57	8.45	32128
231 18:58:50	-17.89	32129
231 20:43:42	-44.23	32130
231 22:28:34	-70.58	32131

231 01:40:44	-67.64	25860
231 03:25:39	-94.00	25861
231 05:10:35	-120.35	25862
231 06:55:30	-146.71	25863
231 08:40:26	-173.06	25864
231 10:25:21	160.58	25865
231 12:10:16	134.22	25866
231 13:55:12	107.87	25867
231 15:40:07	81.51	25868
231 17:25:03	55.15	25869
231 19:09:58	28.80	25870
231 20:54:53	2.44	25871
231 22:39:49	-23.92	25872

232 00:23:23	-172.73	35650
232 02:08:44	160.81	35651
232 03:54:05	134.35	35652
232 05:39:26	107.89	35653
232 07:24:47	81.43	35654
232 09:10:07	54.96	35655
232 10:55:28	28.56	35656
232 12:40:49	2.04	35657
232 14:26:10	-24.42	35658
232 16:11:31	-50.88	35659
232 17:56:51	-77.35	35660
232 19:42:12	-103.81	35661
232 21:27:33	-130.27	35662
232 23:12:54	-156.73	35663

232 00:13:26	-96.92	32132
232 01:58:19	-123.26	32133
232 03:43:11	-149.61	32134
232 05:28:03	-175.95	32135
232 07:12:55	157.71	32136
232 08:57:47	131.36	32137
232 10:42:40	105.02	32138
232 12:27:32	78.68	32139
232 14:12:24	52.33	32140
232 15:57:16	25.99	32141
232 17:42:09	-35	32142
232 19:27:01	-26.69	32143
232 21:11:53	-53.04	32144
232 22:56:45	-79.38	32145

232 00:24:44	-50.27	25873
232 02:09:40	-76.63	25874
232 03:54:35	-102.99	25875
232 05:39:31	-129.34	25876
232 07:24:26	-155.70	25877
232 09:09:21	177.94	25878
232 10:54:17	151.59	25879
232 12:39:12	125.23	25880
232 14:24:08	98.88	25881
232 16:09:03	72.52	25882
232 17:53:58	46.16	25883
232 19:38:54	19.81	25884
232 21:23:49	-6.93	25885
232 23:08:45	-32.91	25886

SATELLITE S2							SATELLITE S3							SATELLITE S4						
Ascending Node Predictions							Ascending Node Predictions							Ascending Node Predictions						
Predicting for 183 days							Predicting for 183 days							Predicting for 183 days						
TIME (GMT)	E	LONG	ORBIT	TIME (GMT)	E	LONG	ORBIT	TIME (GMT)	E	LONG	ORBIT	TIME (GMT)	E	LONG	ORBIT	TIME (GMT)	E	LONG	ORBIT	
day	hr	mn	sc	day	hr	mn	sc	day	hr	mn	sc	day	hr	mn	sc	day	hr	mn	sc	
deg	dg			deg	dg			deg	dg			deg	dg			deg	dg			
229 00:26:27	-115.09	24105	229 01:30:45	-89.72	15134	229 01:26:12	-174.37	4606												
229 02:08:30	-140.60	24106	229 03:12:01	-115.03	15135	229 03:08:20	160.09	4607												
229 03:50:33	-166.11	24107	229 04:53:17	-140.35	15136	229 04:50:27	134.57	4608												
229 05:32:36	168.38	24108	229 06:34:32	-165.66	15137	229 06:32:35	109.03	4609												
229 07:14:39	142.87	24109	229 08:15:48	169.02	15138	229 08:14:42	83.50	4610												
229 08:56:42	117.36	24110	229 09:57:04	143.71	15139	229 09:56:49	57.98	4611												
229 10:38:45	91.85	24111	229 11:38:20	118.39	15140	229 11:38:57	32.44	4612												
229 12:20:48	66.34	24112	229 13:19:36	93.07	15141	229 13:21:04	6.92	4613												
229 14:02:51	40.83	24113	229 15:00:52	67.75	15142	229 15:03:12	-18.62	4614												
229 15:44:54	15.32	24114	229 16:42:08	42.43	15143	229 16:45:19	-44.15	4615												
229 17:26:57	-10.19	24115	229 18:23:24	17.12	15144	229 18:27:26	-69.67	4616												
229 19:09:00	-35.70	24116	229 20:04:39	-8.19	15145	229 20:09:34	-95.21	4617												
229 20:51:03	-61.21	24117	229 21:45:55	-33.51	15146	229 21:51:41	-120.74	4618												
229 22:33:06	-86.72	24118	229 23:27:11	-58.83	15147	229 23:33:49	-146.27	4619												
230 00:15:09	-112.24	24119	230 01:08:27	-84.14	15148	230 01:15:56	-171.80	4620												
230 01:57:12	-137.75	24120	230 02:49:43	-109.46	15149	230 02:58:04	162.66	4621												
230 03:39:15	-163.26	24121	230 04:30:59	-134.78	15150	230 04:40:11	137.14	4622												
230 05:21:18	171.23	24122	230 06:12:15	-160.10	15151	230 06:22:18	111.61	4623												
230 07:03:21	145.72	24123	230 07:53:31	174.58	15152	230 08:04:26	86.08	4624												
230 08:45:24	120.21	24124	230 09:34:46	149.28	15153	230 09:46:33	60.55	4625												
230 10:27:27	94.70	24125	230 11:16:02	123.96	15154	230 11:28:41	35.01	4626												
230 12:09:30	69.19	24126	230 12:57:18	98.64	15155	230 13:10:48	9.49	4627												
230 13:51:32	43.70	24127	230 14:38:34	73.33	15156	230 14:52:55	-16.04	4628												
230 15:33:35	18.18	24128	230 16:19:50	48.01	15157	230 16:35:03	-41.58	4629												
230 17:15:38	-7.33	24129	230 18:01:06	22.69	15158	230 18:17:10	-67.10	4630												
230 18:57:41	-32.84	24130	230 19:42:22	-2.63	15159	230 19:59:18	-92.64	4631												
230 20:39:44	-58.35	24131	230 21:23:38	-27.95	15160	230 21:41:25	-118.16	4632												
230 22:21:47	-83.86	24132	230 23:04:53	-53.25	15161	230 23:23:32	-143.69	4633												
231 00:03:50	-109.37	24133	231 00:46:09	-78.37	15162	231 01:05:40	-169.23	4634												
231 01:45:53	-134.88	24134	231 02:27:25	-103.89	15163	231 02:47:47	165.25	4635												
231 03:27:56	-160.39	24135	231 04:08:41	-129.21	15164	231 04:29:55	139.71	4636												
231 05:09:59	174.10	24136	231 05:49:57	-154.52	15165	231 06:12:02	114.19	4637												
231 06:52:02	148.59	24137	231 07:31:13	-179.84	15166	231 07:54:09	88.66	4638												
231 08:34:05	123.08	24138	231 09:12:29	154.84	15167	231 09:36:17	63.12	4639												
231 10:16:08	97.57	24139	231 10:53:45	129.52	15168	231 11:18:24	37.60	4640												
231 11:58:11	72.06	24140	231 12:35:00	104.22	15169	231 13:00:32	12.06	4641												
231 13:40:14	46.55	24141	231 14:16:16	78.90	15170	231 14:42:39	-13.47	4642												
231 15:22:17	21.04	24142	231 15:57:32	53.58	15171	231 16:24:47	-39.00	4643												
231 17:04:20	-4.47	24143	231 17:38:48	28.26	15172	231 18:06:54	-64.53	4644												
231 18:46:23	-29.98	24144	231 19:20:04	2.94	15173	231 19:49:01	-90.05	4645												
231 20:28:26	-55.49	24145	231 21:01:20	-22.37	15174	231 21:31:09	-115.59	4646												
231 22:10:29	-81.00	24146	231 22:42:36	-47.69	15175	231 23:13:16	-141.12	4647												
232 01:34:35	-132.02	24148	232 00:23:32	-73.01	15176	232 00:55:24	-166.65	4648												
232 03:16:38	-157.53	24149	232 02:05:08	-98.33	15177	232 02:37:31	167.82	4649												
232 04:58:41	176.96	24150	232 03:46:23	-123.63	15178	232 04:19:38	142.30	4650												
232 06:40:44	151.45	24151	232 05:27:39	-148.95	15179	232 06:01:46	116.76	4651												
232 08:22:47	125.94	24152	232 07:08:55	-174.27	15180	232 07:43:53	91.23	4652												
232 10:04:50	100.43	24153	232 08:50:11	160.41	15181	232 09:26:01	65.69	4653												
232 11:46:53	74.91	24154	232 10:31:27	135.09	15182	232 11:08:08	40.17	4654												
232 13:28:56	49.40	24155	232 12:12:43	109.78	15183	232 12:50:15	14.64	4655												
232 15:10:59	23.89	24156	232 13:53:59	84.46	15184	232 14:32:23	-10.89	4656												
232 16:53:02	-1.62	24157	232 15:35:15	59.14	15185	232 16:14:30	-36.42	4657												
232 18:35:05	-27.13	24158	232 17:16:30	33.84	15186	232 17:56:38	-61.96	4658												
232 20:17:08	-52.64	24159	232 18:57:46	8.52	15187	232 19:38:45	-87.48	4659												
232 21:59:11	-78.15	24160	232 20:39:02	-16.80	15188	232 21:20:52	-113.01	4660												
232 23:41:14	-103.66	24161	232 22:20:18	-42.12	15189	232 23:03:00	-138.54	4661												

West longitude is negative (-)

SATELLITE C1				SATELLITE C2				SATELLITE C3									
Ascending Node Predictions				Ascending Node Predictions				Ascending Node Predictions									
Predicting for 183 days				Predicting for 183 days				Predicting for 183 days									
TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT						
day hr mn sc	deg dg		day hr mn sc	deg dg		day hr mn sc	deg dg		day hr mn sc	deg dg							
233 00:58:15	176.80	35664	233 00:41:38	-105.72	32146	233 00:53:40	-39.26	25887	233 02:43:35	150.34	35665	233 02:26:30	-132.07	32147	233 02:38:35	-85.62	25888
233 04:28:56	123.88	35666	233 04:11:22	-158.41	32148	233 04:23:31	-111.98	25889	233 06:14:17	97.42	35667	233 05:56:14	175.24	32149	233 06:08:26	-138.33	25890
233 07:59:38	70.95	35668	233 07:41:07	148.90	32150	233 07:53:22	-164.69	25891	233 09:44:58	44.49	35669	233 09:25:59	122.56	32151	233 09:38:17	168.95	25892
233 11:30:19	18.03	35670	233 11:10:51	96.22	32152	233 11:23:13	142.60	25893	233 13:15:40	-8.43	35671	233 12:55:43	69.87	32153	233 13:08:08	116.24	25894
233 15:01:01	-34.90	35672	233 14:40:35	43.53	32154	233 14:53:03	89.88	25895	233 16:46:22	-61.36	35673	233 16:25:28	17.19	32155	233 16:37:59	63.53	25896
233 18:31:42	-87.82	35674	233 18:10:20	-9.16	32156	233 18:22:54	37.17	25897	233 20:17:03	-114.28	35675	233 19:55:12	-35.50	32157	233 20:07:50	10.82	25898
233 22:02:24	-140.75	35676	233 21:40:04	-61.84	32158	233 21:52:45	-15.54	25899	233 23:47:45	-167.21	35677	233 23:24:57	-88.19	32159	233 23:37:40	-41.90	25900
234 01:33:06	166.33	35678	234 01:09:49	-114.53	32160	234 01:22:36	-68.25	25901	234 03:18:26	139.87	35679	234 02:54:41	-140.87	32161	234 03:07:31	-94.61	25902
234 05:03:47	113.40	35680	234 04:39:33	-167.22	32162	234 04:52:27	-120.97	25903	234 06:49:08	86.94	35681	234 06:24:26	166.44	32163	234 06:37:22	-147.32	25904
234 08:34:29	60.48	35682	234 08:09:18	140.10	32164	234 08:22:18	-173.68	25905	234 10:19:50	34.02	35683	234 09:54:10	113.75	32165	234 10:07:13	159.96	25906
234 12:05:10	7.55	35684	234 11:39:02	87.41	32166	234 11:52:08	133.61	25907	234 13:50:31	-18.91	35685	234 13:23:55	61.07	32167	234 13:37:04	107.25	25908
234 15:35:52	-95.37	35686	234 15:08:47	34.72	32168	234 15:21:59	80.89	25909	234 17:21:13	-71.83	35687	234 16:53:39	8.38	32169	234 17:06:55	54.54	25910
234 19:06:34	-98.29	35688	234 18:38:31	-17.96	32170	234 18:51:50	28.18	25911	234 20:51:54	-124.76	35689	234 20:23:23	-44.31	32171	234 20:36:45	1.82	25912
234 22:37:15	-151.22	35690	234 22:08:16	-70.65	32172	234 22:21:41	-24.53	25913				234 23:53:08	-96.99	32173			
235 00:22:36	-177.68	35691	235 01:38:00	-123.34	32174	235 00:06:36	-50.89	25914	235 02:07:57	155.86	35692	235 03:22:52	-149.68	32175	235 01:51:32	-77.24	25915
235 03:53:18	129.40	35693	235 05:07:45	-176.02	32176	235 03:36:27	-103.60	25916	235 05:38:38	102.93	35694	235 06:52:37	157.64	32177	235 05:21:22	-129.96	25917
235 07:23:59	76.47	35695	235 08:37:29	131.29	32178	235 07:06:18	-156.31	25918	235 09:09:20	50.01	35696	235 10:22:21	104.95	32179	235 08:51:13	177.33	25919
235 10:54:41	23.55	35697	235 12:07:14	78.61	32180	235 10:36:09	150.98	25920	235 12:40:02	-2.92	35698	235 13:52:06	52.26	32181	235 12:21:04	124.62	25921
235 14:25:22	-29.38	35699	235 15:36:58	25.92	32182	235 14:06:00	98.26	25922	235 16:10:43	-55.84	35700	235 17:21:50	-43	32183	235 15:50:55	71.91	25923
235 17:56:04	-82.30	35701	235 19:06:43	-26.77	32184	235 17:35:50	45.55	25924	235 19:41:25	-108.77	35702	235 20:51:35	-53.11	32185	235 19:20:46	19.19	25925
235 21:26:46	-135.23	35703	235 22:36:27	-79.45	32186	235 21:05:41	-7.16	25926	235 23:12:06	-161.69	35704				235 22:50:37	-33.52	25927
236 00:57:27	171.85	35705	236 00:21:19	-105.80	32187	236 00:35:32	-39.88	25928	236 02:42:48	145.38	35706	236 02:06:12	-132.14	32188	236 02:20:27	-86.23	25929
236 04:28:09	118.92	35707	236 03:51:04	-158.48	32189	236 04:05:23	-112.59	25930	236 06:13:30	92.46	35708	236 05:35:56	175.17	32190	236 05:50:18	-138.95	25931
236 07:38:50	66.00	35709	236 07:20:48	148.83	32191	236 07:35:14	-165.30	25932	236 09:44:11	39.53	35710	236 09:05:40	122.49	32192	236 09:20:09	168.34	25933
236 11:29:32	13.07	35711	236 10:50:33	96.14	32193	236 11:05:04	141.98	25934	236 13:14:53	-13.39	35712	236 12:35:25	69.90	32194	236 12:50:00	115.63	25935
236 15:00:13	-39.86	35713	236 14:20:17	43.46	32195	236 14:34:55	89.27	25936	236 16:45:34	-66.32	35714	236 16:05:09	17.11	32196	236 16:19:51	62.92	25937
236 18:30:55	-92.78	35715	236 17:50:02	-9.23	32197	236 18:04:46	36.56	25938	236 20:16:16	-119.24	35716	236 19:34:54	-35.57	32198	236 19:49:42	10.20	25939
236 22:01:37	-145.70	35717	236 21:19:46	-61.92	32199	236 21:34:37	-16.15	25940	236 23:46:57	-172.17	35718	236 23:04:38	-88.26	32200	236 23:19:32	-42.51	25941

SATELLITE S2**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

233 01:23:17	-129.17	24162
233 03:05:20	-154.68	24163
233 04:47:23	179.81	24164
233 06:29:26	154.30	24165
233 08:11:29	128.79	24166
233 09:53:32	103.28	24167
233 11:35:35	77.77	24168
233 13:17:38	52.26	24169
233 14:59:41	26.75	24170
233 16:41:44	1.24	24171
233 18:23:47	-24.27	24172
233 20:05:50	-49.78	24173
233 21:47:53	-75.29	24174
233 23:29:56	-100.80	24175

SATELLITE S3**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

233 00:01:34	-67.44	15190
233 01:42:50	-92.76	15191
233 03:24:06	-118.07	15192
233 05:05:22	-143.39	15193
233 06:46:37	-168.70	15194
233 08:27:53	-165.99	15195
233 10:09:09	-140.67	15196
233 11:50:25	-115.35	15197
233 13:31:41	90.03	15198
233 15:12:57	64.71	15199
233 16:54:13	39.40	15200
233 18:35:29	14.08	15201
233 20:16:44	-11.23	15202
233 21:58:00	-36.55	15203
233 23:39:16	-61.86	15204

SATELLITE S4**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

233 00:43:07	-164.07	4662
233 02:27:15	170.39	4663
233 04:09:22	144.87	4664
233 05:51:29	119.34	4665
233 07:33:37	93.80	4666
233 09:15:44	68.28	4667
233 10:57:52	42.74	4668
233 12:39:59	17.22	4669
233 14:22:07	-8.32	4670
233 16:04:14	-33.85	4671
233 17:46:21	-59.37	4672
233 19:28:29	-84.91	4673
233 21:10:36	-110.43	4674
233 22:52:44	-135.97	4675

234 01:11:59	-126.31	24176
234 02:54:02	-151.82	24177
234 04:36:05	-177.33	24178
234 06:18:08	157.15	24179
234 08:00:11	131.64	24180
234 09:42:14	106.13	24181
234 11:24:17	80.62	24182
234 13:06:20	55.11	24183
234 14:48:22	29.62	24184
234 16:30:25	4.11	24185
234 18:12:28	-21.40	24186
234 19:54:31	-46.91	24187
234 21:36:34	-72.43	24188
234 23:18:37	-97.94	24189

234 01:20:32	-87.18	15205
234 03:01:48	-112.50	15206
234 04:43:04	-137.82	15207
234 06:24:20	-163.14	15208
234 08:05:36	171.55	15209
234 09:46:51	146.24	15210
234 11:28:07	120.92	15211
234 13:09:23	95.60	15212
234 14:50:39	70.29	15213
234 16:31:55	44.97	15214
234 18:13:11	19.65	15215
234 19:54:27	-5.67	15216
234 21:35:43	-30.99	15217
234 23:16:58	-56.29	15218

234 00:34:51	-161.50	4676
234 02:16:58	172.98	4677
234 03:59:06	147.44	4678
234 05:41:13	121.91	4679
234 07:23:21	96.38	4680
234 09:05:28	70.85	4681
234 10:47:35	45.33	4682
234 12:29:43	19.79	4683
234 14:11:50	-5.74	4684
234 15:53:58	-31.27	4685
234 17:36:05	-56.80	4686
234 19:18:12	-82.32	4687
234 21:00:20	-107.86	4688
234 22:42:27	-133.39	4689

235 01:00:40	-123.45	24190
235 02:42:43	-148.96	24191
235 04:24:46	-174.47	24192
235 06:06:49	160.02	24193
235 07:48:52	134.51	24194
235 09:30:55	109.00	24195
235 11:12:58	83.49	24196
235 12:55:01	57.98	24197
235 14:37:04	32.47	24198
235 16:19:07	6.96	24199
235 18:01:10	-18.55	24200
235 19:43:13	-44.06	24201
235 21:25:16	-69.57	24202
235 23:07:19	-95.08	24203

235 00:58:14	-81.61	15219
235 02:39:30	-106.93	15220
235 04:20:46	-132.25	15221
235 06:02:02	-157.56	15222
235 07:43:18	177.12	15223
235 09:24:34	151.80	15224
235 11:05:50	126.48	15225
235 12:47:05	101.18	15226
235 14:28:21	75.86	15227
235 16:09:37	50.54	15228
235 17:50:53	25.22	15229
235 19:32:09	-10	15230
235 21:13:25	-25.41	15231
235 22:54:41	-50.73	15232

235 00:24:35	-158.93	4690
235 02:06:42	175.35	4691
235 03:48:50	150.01	4692
235 05:30:57	124.49	4693
235 07:13:04	98.96	4694
235 08:55:12	73.42	4695
235 10:37:19	47.90	4696
235 12:19:27	22.36	4697
235 14:01:34	-3.16	4698
235 15:43:41	-28.69	4699
235 17:25:49	-54.23	4700
235 19:07:56	-79.75	4701
235 20:50:04	-105.29	4702
235 22:32:11	-130.82	4703

236 00:49:22	-120.59	24204
236 02:31:25	-146.10	24205
236 04:13:28	-171.61	24206
236 05:55:31	162.88	24207
236 07:37:34	137.37	24208
236 09:19:37	111.86	24209
236 11:01:40	86.35	24210
236 12:43:43	60.84	24211
236 14:25:46	35.33	24212
236 16:07:49	9.81	24213
236 17:49:52	-15.70	24214
236 19:31:55	-41.21	24215
236 21:13:58	-66.72	24216
236 22:56:01	-92.23	24217

236 00:35:57	-76.05	15233
236 02:17:12	-101.35	15234
236 03:58:28	-126.67	15235
236 05:39:44	-151.99	15236
236 07:21:00	-177.31	15237
236 09:02:16	157.37	15238
236 10:43:32	132.06	15239
236 12:24:48	106.74	15240
236 14:06:04	81.42	15241
236 15:47:19	56.11	15242
236 17:28:35	30.80	15243
236 19:09:51	5.48	15244
236 20:51:07	-19.84	15245
236 22:32:23	-45.16	15246

236 00:14:18	-156.34	4704
236 01:56:26	178.12	4705
236 03:38:33	152.60	4706
236 05:20:41	127.06	4707
236 07:02:48	101.53	4708
236 08:44:55	76.01	4709
236 10:27:03	50.47	4710
236 12:09:10	24.95	4711
236 13:51:18	-59	4712
236 15:33:25	-26.12	4713
236 17:15:32	-51.64	4714
236 18:57:40	-77.18	4715
236 20:39:47	-102.71	4716
236 22:21:55	-128.24	4717

SATELLITE C1

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

237 01:32:18	161.37	35719
237 03:17:39	134.91	35720
237 05:03:00	108.45	35721
237 06:48:21	81.99	35722
237 08:33:41	55.52	35723
237 10:19:02	29.06	35724
237 12:04:23	2.60	35725
237 13:49:44	-23.86	35726
237 15:35:05	-50.33	35727
237 17:20:25	-76.79	35728
237 19:05:46	-103.25	35729
237 20:51:07	-129.71	35730
237 22:36:28	-156.18	35731

SATELLITE C2

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

237 00:49:31	-114.60	32201
237 02:34:23	-140.95	32202
237 04:19:15	-167.29	32203
237 06:04:07	166.37	32204
237 07:49:00	140.03	32205
237 09:33:52	113.68	32206
237 11:18:44	87.34	32207
237 13:03:36	60.99	32208
237 14:48:29	34.65	32209
237 16:33:21	8.31	32210
237 18:18:13	-18.03	32211
237 20:03:05	-44.38	32212
237 21:47:58	-70.72	32213
237 23:32:50	-97.06	32214

SATELLITE C3

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

237 01:04:28	-68.87	23942
237 02:49:23	-95.22	23943
237 04:34:19	-121.58	23944
237 06:19:14	-147.94	23945
237 08:04:09	-174.29	23946
237 09:49:05	159.35	23947
237 11:34:00	132.99	23948
237 13:18:56	106.64	23949
237 15:03:51	80.28	23950
237 16:48:46	53.92	23951
237 18:33:42	27.57	23952
237 20:18:37	1.21	23953
237 22:03:33	-25.14	23954
237 23:48:28	-51.50	23955

238 00:21:49	177.36	35732
238 02:07:09	150.90	35733
238 03:52:30	124.44	35734
238 05:37:51	97.97	35735
238 07:23:12	71.51	35736
238 09:08:33	45.05	35737
238 10:53:53	18.59	35738
238 12:39:14	-7.88	35739
238 14:24:35	-34.34	35740
238 16:09:56	-60.80	35741
238 17:55:17	-87.26	35742
238 19:40:37	-113.73	35743
238 21:25:58	-140.19	35744
238 23:11:19	-166.65	35745

238 01:17:42	-123.41	32215
238 03:02:34	-149.75	32216
238 04:47:26	-176.10	32217
238 06:32:19	157.56	32218
238 08:17:11	131.22	32219
238 10:02:03	104.88	32220
238 11:46:55	78.53	32221
238 13:31:48	52.19	32222
238 15:16:40	25.85	32223
238 17:01:32	-50	32224
238 18:46:24	-26.84	32225
238 20:31:17	-53.18	32226
238 22:16:09	-79.53	32227

238 01:33:23	-77.86	23956
238 03:18:19	-104.21	23957
238 05:03:14	-130.57	23958
238 06:48:10	-156.93	23959
238 08:33:05	176.72	23960
238 10:18:01	150.36	23961
238 12:02:56	124.01	23962
238 13:47:51	97.65	23963
238 15:32:47	71.29	23964
238 17:17:42	44.94	23965
238 19:02:38	18.58	23966
238 20:47:33	-7.78	23967
238 22:32:28	-34.13	23968

239 00:56:40	166.89	35746
239 02:42:01	140.43	35747
239 04:27:21	113.96	35748
239 06:12:42	87.50	35749
239 07:58:03	61.04	35750
239 09:43:24	34.58	35751
239 11:28:45	8.11	35752
239 13:14:05	-18.35	35753
239 14:59:26	-44.81	35754
239 16:44:47	-71.27	35755
239 18:30:08	-97.74	35756
239 20:15:29	-124.20	35757
239 22:00:49	-150.66	35758
239 23:46:10	-177.12	35759

239 00:01:01	-105.87	32228
239 01:45:53	-132.21	32229
239 03:30:46	-158.56	32230
239 05:15:38	175.10	32231
239 07:00:30	148.76	32232
239 08:45:22	122.41	32233
239 10:30:15	96.07	32234
239 12:15:07	69.73	32235
239 13:59:59	43.38	32236
239 15:44:51	17.04	32237
239 17:29:44	-9.30	32238
239 19:14:36	-35.65	32239
239 20:59:28	-61.99	32240
239 22:44:20	-88.33	32241

239 00:17:24	-60.49	23969
239 02:02:19	-86.85	23970
239 03:47:15	-113.20	23971
239 05:32:10	-139.56	23972
239 07:17:05	-165.92	23973
239 09:02:01	167.73	23974
239 10:46:56	141.37	23975
239 12:31:52	115.02	23976
239 14:16:47	88.66	23977
239 16:01:42	62.30	23978
239 17:46:38	35.95	23979
239 19:31:33	9.59	23980
239 21:16:29	-16.77	23981
239 23:01:24	-43.12	23982

240 01:31:31	156.41	35760
240 03:16:52	129.95	35761
240 05:02:13	103.49	35762
240 06:47:33	77.03	35763
240 08:32:54	50.56	35764
240 10:18:15	24.10	35765
240 12:03:36	-2.36	35766
240 13:48:57	-28.82	35767
240 15:34:17	-55.29	35768
240 17:19:38	-81.75	35769
240 19:04:59	-108.21	35770
240 20:50:20	-134.67	35771
240 22:35:41	-161.13	35772

240 00:29:13	-114.67	32242
240 02:14:05	-141.02	32243
240 03:58:57	-167.36	32244
240 05:43:49	166.29	32245
240 07:28:42	139.95	32246
240 09:13:34	113.61	32247
240 10:58:26	87.27	32248
240 12:43:18	60.92	32249
240 14:28:10	34.58	32250
240 16:13:03	8.24	32251
240 17:57:55	-18.11	32252
240 19:42:47	-44.45	32253
240 21:27:39	-70.80	32254
240 23:12:32	-97.14	32255

240 00:46:20	-69.48	23983
240 02:31:15	-95.84	23984
240 04:16:10	-122.19	23985
240 06:01:06	-148.55	23986
240 07:46:01	-174.91	23987
240 09:30:57	158.74	23988
240 11:15:52	132.38	23989
240 13:00:47	106.02	23990
240 14:45:43	79.67	23991
240 16:30:38	53.31	23992
240 18:15:34	26.96	23993
240 20:00:29	.60	23994
240 21:45:24	-25.76	23995
240 23:30:20	-52.11	23996

SATELLITE S2

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

237 00:38:04	-117.74	24218
237 02:20:07	-143.23	24219
237 04:02:10	-168.76	24220
237 05:44:13	165.73	24221
237 07:26:16	140.22	24222
237 09:08:19	114.71	24223
237 10:50:22	89.20	24224
237 12:32:25	63.69	24225
237 14:14:28	38.18	24226
237 15:56:31	12.67	24227
237 17:38:34	-12.84	24228
237 19:20:37	-38.35	24229
237 21:02:40	-63.86	24230
237 22:44:43	-89.37	24231

SATELLITE S3

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

237 00:13:39	-70.48	15247
237 01:54:55	-95.79	15248
237 03:36:11	-121.11	15249
237 05:17:26	-146.42	15250
237 06:58:42	-171.74	15251
237 08:39:58	162.95	15252
237 10:21:14	137.63	15253
237 12:02:30	112.31	15254
237 13:43:46	86.99	15255
237 15:25:02	61.67	15256
237 17:06:18	36.36	15257
237 18:47:33	11.05	15258
237 20:28:49	-14.27	15259
237 22:10:05	-39.59	15260
237 23:51:21	-64.90	15261

SATELLITE S4

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

237 00:04:02	-153.77	4718
237 01:46:10	-179.31	4719
237 03:28:17	155.17	4720
237 05:10:24	129.64	4721
237 06:52:32	104.11	4722
237 08:34:39	78.58	4723
237 10:16:47	53.04	4724
237 11:58:54	27.52	4725
237 13:41:01	1.99	4726
237 15:23:09	-23.55	4727
237 17:05:16	-49.07	4728
237 18:47:24	-74.61	4729
237 20:29:31	-100.13	4730
237 22:11:38	-125.66	4731
237 23:53:46	-151.20	4732

238 00:26:46	-114.88	24232
238 02:08:49	-140.39	24233
238 03:50:52	-165.90	24234
238 05:32:55	168.59	24235
238 07:14:58	143.08	24236
238 08:57:00	117.58	24237
238 10:39:03	92.07	24238
238 12:21:06	66.56	24239
238 14:03:09	41.05	24240
238 15:45:12	15.54	24241
238 17:27:15	-9.97	24242
238 19:09:18	-35.48	24243
238 20:51:21	-60.99	24244
238 22:33:24	-86.50	24245

238 01:32:37	-90.22	15262
238 03:13:53	-115.54	15263
238 04:55:09	-140.86	15264
238 06:36:25	-166.18	15265
238 08:17:40	168.52	15266
238 09:58:56	143.20	15267
238 11:40:12	117.88	15268
238 13:21:28	92.56	15269
238 15:02:44	67.25	15270
238 16:44:00	41.93	15271
238 18:25:16	16.61	15272
238 20:06:32	-8.71	15273
238 21:47:47	-34.01	15274
238 23:29:03	-59.33	15275

238 01:33:53	-176.72	4733
238 03:18:01	157.74	4734
238 05:00:08	132.22	4735
238 06:42:15	106.69	4736
238 08:24:23	81.15	4737
238 10:06:30	55.63	4738
238 11:48:38	30.09	4739
238 13:30:45	4.56	4740
238 15:12:52	-20.96	4741
238 16:55:00	-46.50	4742
238 18:37:07	-72.02	4743
238 20:19:15	-97.56	4744
238 22:01:22	-123.09	4745
238 23:43:30	-148.62	4746

239 00:15:27	-112.02	24246
239 01:57:30	-137.53	24247
239 03:39:33	-163.04	24248
239 05:21:36	171.45	24249
239 07:03:39	145.94	24250
239 08:45:42	120.43	24251
239 10:27:45	94.92	24252
239 12:09:48	69.41	24253
239 13:51:51	43.90	24254
239 15:33:54	18.39	24255
239 17:15:57	-7.12	24256
239 18:58:00	-32.63	24257
239 20:40:03	-58.14	24258
239 22:22:06	-83.65	24259

239 01:10:19	-84.65	15276
239 02:51:35	-109.97	15277
239 04:32:51	-135.29	15278
239 06:14:07	-160.60	15279
239 07:55:23	174.08	15280
239 09:36:39	148.76	15281
239 11:17:54	123.46	15282
239 12:59:10	98.14	15283
239 14:40:26	72.82	15284
239 16:21:42	47.50	15285
239 18:02:58	22.18	15286
239 19:44:14	-3.14	15287
239 21:25:30	-28.45	15288
239 23:06:46	-53.77	15289

239 01:25:37	-174.15	4747
239 03:07:44	160.33	4748
239 04:49:52	134.79	4749
239 06:31:59	109.26	4750
239 08:14:07	83.72	4751
239 09:56:14	58.20	4752
239 11:38:21	32.67	4753
239 13:20:29	7.14	4754
239 15:02:36	-18.39	4755
239 16:44:44	-43.93	4756
239 18:26:51	-69.45	4757
239 20:08:58	-94.98	4758
239 21:51:06	-120.51	4759
239 23:33:13	-146.04	4760

240 00:04:09	-109.16	24260
240 01:46:12	-134.67	24261
240 03:28:15	-160.18	24262
240 05:10:18	174.31	24263
240 06:52:21	148.80	24264
240 08:34:24	123.29	24265
240 10:16:27	97.78	24266
240 11:58:30	72.27	24267
240 13:40:33	46.76	24268
240 15:22:36	21.23	24269
240 17:04:39	-4.27	24270
240 18:46:42	-29.78	24271
240 20:28:45	-55.29	24272
240 22:10:48	-80.80	24273
240 23:52:51	-106.31	24274

240 00:48:01	-79.08	15290
240 02:29:17	-104.39	15291
240 04:10:33	-129.71	15292
240 05:51:49	-155.03	15293
240 07:33:05	179.65	15294
240 09:14:21	154.33	15295
240 10:55:37	129.01	15296
240 12:36:53	103.70	15297
240 14:18:08	78.39	15298
240 15:59:24	53.07	15299
240 17:40:40	27.76	15300
240 19:21:56	2.44	15301
240 21:03:12	-22.88	15302
240 22:44:28	-48.20	15303

240 01:15:21	-171.58	4761
240 02:57:28	162.90	4762
240 04:39:35	137.37	4763
240 06:21:43	111.83	4764
240 08:03:50	86.31	4765
240 09:45:58	60.77	4766
240 11:28:05	35.25	4767
240 13:10:12	9.72	4768
240 14:52:20	-15.82	4769
240 16:34:27	-41.34	4770
240 18:16:35	-66.88	4771
240 19:58:42	-92.40	4772
240 21:40:49	-117.93	4773
240 23:22:57	-143.47	4774

SATELLITE C1
Ascending Node Predictions

Predicting for 183 days

 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

241 00:21:01 172.40 35773
 241 02:06:22 145.94 35774
 241 03:51:43 119.48 35775
 241 05:37:04 93.02 35776
 241 07:22:25 66.55 35777
 241 09:07:45 40.09 35778
 241 10:53:06 13.63 35779
 241 12:38:27 -12.83 35780
 241 14:23:48 -39.30 35781
 241 16:09:09 -65.76 35782
 241 17:54:29 -92.22 35783
 241 19:39:50 -118.68 35784
 241 21:25:11 -145.15 35785
 241 23:10:32 -171.61 35786

SATELLITE C2
Ascending Node Predictions

Predicting for 183 days

 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

241 00:57:24 -123.48 32236
 241 02:42:16 -149.82 32257
 241 04:27:08 -176.17 32258
 241 06:12:01 157.49 32259
 241 07:56:53 131.15 32260
 241 09:41:45 104.80 32261
 241 11:26:37 78.46 32262
 241 13:11:30 52.12 32263
 241 14:56:22 25.77 32264
 241 16:41:14 -.57 32265
 241 18:26:06 -26.91 32266
 241 20:10:59 -53.26 32267
 241 21:55:51 -79.60 32268
 241 23:40:43 -105.94 32269

SATELLITE C3
Ascending Node Predictions

Predicting for 183 days

 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

241 01:15:15 -78.47 25997
 241 03:00:11 -104.82 25998
 241 04:45:06 -131.18 25999
 241 06:30:01 -157.54 26000
 241 08:14:57 176.11 26001
 241 09:59:52 149.75 26002
 241 11:44:48 123.39 26003
 241 13:29:43 97.04 26004
 241 15:14:39 70.68 26005
 241 16:59:34 44.32 26006
 241 18:44:29 17.97 26007
 241 20:29:25 -8.39 26008
 241 22:14:20 -34.75 26009
 241 23:59:16 -61.10 26010

242 00:55:53 161.93 35787
 242 02:41:13 135.47 35788
 242 04:26:34 109.00 35789
 242 06:11:55 82.54 35790
 242 07:57:16 56.08 35791
 242 09:42:37 29.62 35792
 242 11:27:57 3.15 35793
 242 13:13:18 -23.31 35794
 242 14:58:39 -49.77 35795
 242 16:44:00 -76.23 35796
 242 18:29:21 -102.69 35797
 242 20:14:41 -129.16 35798
 242 22:00:02 -155.62 35799
 242 23:45:23 177.92 35800

242 01:29:35 -132.29 32270
 242 03:10:28 -158.63 32271
 242 04:53:20 175.03 32272
 242 06:40:12 148.68 32273
 242 08:25:04 122.34 32274
 242 10:09:57 96.00 32275
 242 11:54:49 69.65 32276
 242 13:39:41 43.31 32277
 242 15:24:33 16.97 32278
 242 17:09:26 -9.37 32279
 242 18:54:18 -35.72 32280
 242 20:39:10 -62.06 32281
 242 22:24:02 -88.41 32282

242 01:44:11 -87.46 26011
 242 03:29:06 -113.82 26012
 242 05:14:02 -140.17 26013
 242 06:59:57 -166.53 26014
 242 08:43:53 167.12 26015
 242 10:28:48 140.76 26016
 242 12:13:43 114.40 26017
 242 13:58:39 88.05 26018
 242 15:43:34 61.69 26019
 242 17:28:30 35.33 26020
 242 19:13:25 8.98 26021
 242 20:58:20 -17.38 26022
 242 22:43:16 -43.74 26023

243 01:30:44 131.46 35801
 243 03:16:05 124.99 35802
 243 05:01:25 98.53 35803
 243 06:46:46 72.07 35804
 243 08:32:07 45.61 35805
 243 10:17:28 19.14 35806
 243 12:02:49 -7.32 35807
 243 13:48:10 -33.78 35808
 243 15:33:30 -60.24 35809
 243 17:18:51 -86.71 35810
 243 19:04:12 -113.17 35811
 243 20:49:33 -139.63 35812
 243 22:34:54 -166.09 35813

243 00:08:55 -114.75 32283
 243 01:53:47 -141.09 32284
 243 03:38:39 -167.44 32285
 243 05:23:31 166.22 32286
 243 07:08:24 139.88 32287
 243 08:53:16 113.54 32288
 243 10:38:08 87.19 32289
 243 12:23:00 60.85 32290
 243 14:07:53 34.51 32291
 243 15:52:45 8.16 32292
 243 17:37:37 -18.18 32293
 243 19:22:29 -44.53 32294
 243 21:07:22 -70.87 32295
 243 22:52:14 -97.21 32296

243 00:28:11 -70.09 26024
 243 02:13:07 -96.45 26025
 243 03:58:02 -122.81 26026
 243 05:42:57 -149.16 26027
 243 07:27:53 -175.52 26028
 243 09:12:48 158.13 26029
 243 10:57:44 131.77 26030
 243 12:42:39 105.41 26031
 243 14:27:34 79.06 26032
 243 16:12:30 52.70 26033
 243 17:57:25 26.34 26034
 243 19:42:21 -0.01 26035
 243 21:27:16 -26.37 26036
 243 23:12:11 -52.73 26037

244 00:20:14 167.44 35814
 244 02:05:35 140.98 35815
 244 03:50:56 114.52 35816
 244 05:36:17 88.06 35817
 244 07:21:38 61.60 35818
 244 09:06:58 35.13 35819
 244 10:52:19 8.67 35820
 244 12:37:40 -17.79 35821
 244 14:23:01 -44.25 35822
 244 16:08:22 -70.72 35823
 244 17:53:42 -97.18 35824
 244 19:39:03 -123.64 35825
 244 21:24:24 -150.10 35826
 244 23:09:45 -176.57 35827

244 00:37:06 -123.55 32297
 244 02:21:58 -149.90 32298
 244 04:06:51 -176.24 32299
 244 05:51:43 157.42 32300
 244 07:36:35 131.07 32301
 244 09:21:27 104.73 32302
 244 11:06:20 78.39 32303
 244 12:51:12 52.04 32304
 244 14:36:04 25.70 32305
 244 16:20:56 -.64 32306
 244 18:05:48 -26.99 32307
 244 19:50:41 -53.33 32308
 244 21:35:33 -79.67 32309
 244 23:20:25 -106.02 32310

244 00:57:07 -79.08 26038
 244 02:42:02 -105.44 26039
 244 04:26:58 -131.79 26040
 244 06:11:53 -158.15 26041
 244 07:56:49 175.49 26042
 244 09:41:44 149.14 26043
 244 11:26:39 122.78 26044
 244 13:11:35 96.42 26045
 244 14:56:30 70.07 26046
 244 16:41:26 43.71 26047
 244 18:26:21 17.35 26048
 244 20:11:16 -9.00 26049
 244 21:56:12 -35.36 26050
 244 23:41:07 -61.72 26051

SATELLITE S2

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) **E LONG** **ORBIT**
day hr mn sc **deg dg**

241	01:34:54	-131.82	24275
241	03:16:57	-157.33	24276
241	04:59:00	177.16	24277
241	06:41:03	151.65	24278
241	08:23:06	126.14	24279
241	10:05:09	100.63	24280
241	11:47:12	75.12	24281
241	13:29:15	49.61	24282
241	15:11:18	24.10	24283
241	16:53:21	-1.41	24284
241	18:35:23	-26.91	24285
241	20:17:26	-52.42	24286
241	21:59:29	-77.93	24287
241	23:41:32	-103.44	24288

SATELLITE S3

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) **E LONG** **ORBIT**
day hr mn sc **deg dg**

241	00:25:44	-73.52	15304
241	02:06:59	-98.82	15305
241	03:48:15	-124.14	15306
241	05:29:31	-149.46	15307
241	07:10:47	-174.78	15308
241	08:52:03	159.91	15309
241	10:33:19	134.59	15310
241	12:14:35	109.27	15311
241	13:55:51	83.95	15312
241	15:37:06	58.65	15313
241	17:18:22	33.33	15314
241	18:59:38	8.01	15315
241	20:40:54	-17.31	15316
241	22:22:10	-42.63	15317

SATELLITE S4

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) **E LONG** **ORBIT**
day hr mn sc **deg dg**

241	01:05:04	-168.99	4775
241	02:47:12	165.47	4776
241	04:29:19	139.94	4777
241	06:11:27	114.41	4778
241	07:53:34	88.88	4779
241	09:35:41	63.36	4780
241	11:17:49	37.82	4781
241	12:59:56	12.29	4782
241	14:42:04	-13.24	4783
241	16:24:11	-38.77	4784
241	18:06:18	-64.29	4785
241	19:48:26	-89.83	4786
241	21:30:33	-115.36	4787
241	23:12:41	-140.90	4788

242	01:23:35	-128.95	24289
242	03:05:38	-154.46	24290
242	04:47:41	-179.97	24291
242	06:29:44	154.52	24292
242	08:11:47	129.01	24293
242	09:53:50	103.50	24294
242	11:35:53	77.99	24295
242	13:17:56	52.48	24296
242	14:59:59	26.97	24297
242	16:42:02	1.46	24298
242	18:24:05	-24.05	24299
242	20:06:08	-49.56	24300
242	21:48:11	-75.07	24301
242	23:30:14	-100.59	24302

242	00:03:26	-67.94	15318
242	01:44:42	-93.26	15319
242	03:25:58	-118.58	15320
242	05:07:13	-143.89	15321
242	06:48:29	-169.20	15322
242	08:30:45	165.48	15323
242	10:11:01	140.16	15324
242	11:52:17	114.84	15325
242	13:33:33	89.52	15326
242	15:14:49	64.21	15327
242	16:56:05	38.89	15328
242	18:37:20	13.58	15329
242	20:18:36	-11.74	15330
242	21:59:52	-37.05	15331
242	23:41:08	-62.37	15332

242	00:54:48	-166.42	4789
242	02:36:55	168.05	4790
242	04:19:03	142.52	4791
242	06:01:10	116.99	4792
242	07:43:18	91.45	4793
242	09:25:25	65.93	4794
242	11:07:32	40.40	4795
242	12:49:40	14.87	4796
242	14:31:47	-10.66	4797
242	16:13:55	-36.20	4798
242	17:56:02	-61.72	4799
242	19:38:09	-87.25	4800
242	21:20:17	-112.79	4801
242	23:02:24	-138.31	4802

243	01:12:17	-126.10	24303
243	02:54:20	-151.61	24304
243	04:36:23	-177.12	24305
243	06:18:26	157.37	24306
243	08:00:29	131.86	24307
243	09:42:32	106.35	24308
243	11:24:35	80.84	24309
243	13:06:38	55.33	24310
243	14:48:41	29.82	24311
243	16:30:44	4.31	24312
243	18:12:47	-21.20	24313
243	19:54:50	-46.71	24314
243	21:36:53	-72.22	24315
243	23:18:56	-97.73	24316

243	01:22:24	-87.69	15333
243	03:03:40	-113.01	15334
243	04:44:56	-138.33	15335
243	06:26:12	-163.64	15336
243	08:07:27	171.05	15337
243	09:48:43	145.73	15338
243	11:29:59	120.41	15339
243	13:11:15	95.10	15340
243	14:52:31	69.78	15341
243	16:33:47	44.46	15342
243	18:15:03	19.14	15343
243	19:56:19	-6.18	15344
243	21:37:34	-31.48	15345
243	23:18:50	-56.80	15346

243	00:44:32	-163.85	4803
243	02:26:39	170.63	4804
243	04:08:46	145.10	4805
243	05:50:54	119.56	4806
243	07:33:01	94.04	4807
243	09:15:09	68.56	4808
243	10:57:16	42.98	4809
243	12:39:24	17.44	4810
243	14:21:31	-8.09	4811
243	16:03:38	-33.61	4812
243	17:45:46	-59.15	4813
243	19:27:53	-84.68	4814
243	21:10:01	-110.21	4815
243	22:52:08	-135.74	4816

244	01:00:59	-123.24	24317
244	02:43:02	-148.75	24318
244	04:25:05	-174.26	24319
244	06:07:08	160.23	24320
244	07:49:11	134.72	24321
244	09:31:14	109.21	24322
244	11:13:17	83.70	24323
244	12:55:20	58.19	24324
244	14:37:23	32.67	24325
244	16:19:26	7.16	24326
244	18:01:29	-18.35	24327
244	19:43:32	-43.86	24328
244	21:25:35	-69.37	24329
244	23:07:38	-94.88	24330

244	01:00:06	-82.12	15347
244	02:41:22	-107.44	15348
244	04:22:38	-132.75	15349
244	06:03:54	-158.07	15350
244	07:45:10	176.61	15351
244	09:26:26	151.29	15352
244	11:07:41	125.99	15353
244	12:48:57	100.67	15354
244	14:30:13	75.35	15355
244	16:11:29	50.03	15356
244	17:52:45	24.71	15357
244	19:34:01	-60	15358
244	21:15:17	-25.92	15359
244	22:56:32	-51.23	15360

244	00:34:13	-161.26	4817
244	02:16:23	173.20	4818
244	03:58:30	147.67	4819
244	05:40:38	122.14	4820
244	07:22:45	96.61	4821
244	09:04:52	71.09	4822
244	10:47:00	45.55	4823
244	12:29:07	20.02	4824
244	14:11:15	-5.52	4825
244	15:53:22	-31.04	4826
244	17:35:29	-56.57	4827
244	19:17:37	-82.10	4828
244	20:59:44	-107.63	4829
244	22:41:52	-133.17	4830

SATELLITE C1				SATELLITE C2				SATELLITE C3			
Ascending Node Predictions				Ascending Node Predictions				Ascending Node Predictions			
Predicting for 183 days				Predicting for 183 days				Predicting for 183 days			
TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	day	hr mn sc	deg dg
day	hr	mn	sc	deg	dg	day	hr	mn	sc	deg	dg
245 00:55:06	156.97	35828	245 01:05:17	-132.36	32311	245 01:26:03	-88.07	26052			
245 02:40:26	130.51	35829	245 02:50:10	-158.70	32312	245 03:10:58	-114.43	26053			
245 04:25:47	104.04	35830	245 04:35:02	174.95	32313	245 04:55:53	-140.78	26054			
245 06:11:08	77.58	35831	245 06:19:54	148.61	32314	245 06:40:49	-167.14	26055			
245 07:56:29	51.12	35832	245 08:04:46	122.27	32315	245 08:25:44	166.50	26056			
245 09:41:50	24.66	35833	245 09:49:39	95.92	32316	245 10:10:40	140.15	26057			
245 11:27:10	-1.81	35834	245 11:34:31	69.58	32317	245 11:55:35	113.79	26058			
245 13:12:31	-28.27	35835	245 13:19:23	43.24	32318	245 13:40:30	87.43	26059			
245 14:57:52	-54.73	35836	245 15:04:15	16.89	32319	245 15:25:26	61.08	26060			
245 16:43:13	-81.19	35837	245 16:49:08	-9.45	32320	245 17:10:21	34.72	26061			
245 18:28:34	-107.65	35838	245 18:34:00	-35.79	32321	245 18:55:17	8.37	26062			
245 20:13:54	-134.12	35839	245 20:18:52	-62.14	32322	245 20:40:12	-17.99	26063			
245 21:59:15	-160.58	35840	245 22:03:44	-88.48	32323	245 22:25:07	-44.35	26064			
245 23:44:36	172.96	35841	245 23:48:37	-114.82	32324						
246 01:29:57	146.50	35842	246 01:33:29	-141.17	32325	246 00:10:03	-70.70	26065			
246 03:15:18	120.04	35843	246 03:18:21	-167.51	32326	246 01:54:58	-97.06	26066			
246 05:00:38	93.57	35844	246 05:03:13	166.15	32327	246 03:39:54	-123.42	26067			
246 06:45:59	67.11	35845	246 06:48:06	139.80	32328	246 05:24:49	-149.77	26068			
246 08:31:20	40.65	35846	246 08:32:58	113.46	32329	246 07:09:44	-176.13	26069			
246 10:16:41	14.18	35847	246 10:17:50	87.12	32330	246 08:54:40	157.51	26070			
246 12:02:02	-12.28	35848	246 12:02:42	60.77	32331	246 10:39:35	131.16	26071			
246 13:47:22	-38.74	35849	246 13:47:35	34.43	32332	246 12:24:31	104.80	26072			
246 15:32:43	-65.20	35850	246 15:32:27	8.09	32333	246 14:09:26	78.44	26073			
246 17:18:04	-91.67	35851	246 17:17:19	-18.26	32334	246 15:54:21	52.09	26074			
246 19:03:25	-118.13	35852	246 19:02:11	-44.60	32335	246 17:39:17	25.73	26075			
246 20:48:46	-144.59	35853	246 20:47:04	-70.94	32336	246 19:24:12	-6.63	26076			
246 22:34:07	-171.05	35854	246 22:31:56	-97.29	32337	246 21:09:08	-26.98	26077			
						246 22:54:03	-53.34	26078			
247 00:19:27	162.48	35855	247 00:16:48	-123.63	32338	247 00:38:58	-79.69	26079			
247 02:04:48	136.02	35856	247 02:01:40	-149.97	32339	247 02:23:54	-106.05	26080			
247 03:50:09	109.56	35857	247 03:46:33	-176.31	32340	247 04:08:49	-132.41	26081			
247 05:35:30	83.10	35858	247 05:31:25	157.34	32341	247 05:53:45	-158.76	26082			
247 07:20:51	56.64	35859	247 07:16:17	131.00	32342	247 07:38:40	174.88	26083			
247 09:06:11	30.17	35860	247 09:01:09	104.65	32343	247 09:23:35	148.52	26084			
247 10:51:32	3.71	35861	247 10:46:02	78.31	32344	247 11:08:31	122.17	26085			
247 12:36:53	-22.75	35862	247 12:30:54	51.97	32345	247 12:53:26	95.81	26086			
247 14:22:14	-49.21	35863	247 14:15:46	25.62	32346	247 14:38:22	69.46	26087			
247 16:07:35	-75.68	35864	247 16:00:38	-7.72	32347	247 16:23:17	43.10	26088			
247 17:52:55	-102.14	35865	247 17:45:31	-27.06	32348	247 18:08:13	16.74	26089			
247 19:38:16	-128.60	35866	247 19:30:23	-53.40	32349	247 19:53:08	-9.61	26090			
247 21:23:37	-155.06	35867	247 21:15:15	-79.75	32350	247 21:38:03	-35.97	26091			
247 23:08:58	178.47	35868	247 23:00:07	-106.09	32351	247 23:22:59	-62.33	26092			
248 00:54:19	152.01	35869	248 00:45:00	-132.43	32352	248 01:07:54	-88.68	26093			
248 02:39:39	125.55	35870	248 02:29:52	-158.78	32353	248 02:52:50	-115.04	26094			
248 04:25:00	99.09	35871	248 04:14:44	174.88	32354	248 04:37:45	-141.40	26095			
248 06:10:21	72.62	35872	248 05:59:36	148.53	32355	248 06:22:40	-167.75	26096			
248 07:55:42	46.16	35873	248 07:44:29	122.19	32356	248 08:07:36	165.89	26097			
248 09:41:03	19.70	35874	248 09:29:21	95.85	32357	248 09:52:31	139.53	26098			
248 11:26:23	-6.76	35875	248 11:14:13	69.50	32358	248 11:37:27	113.18	26099			
248 13:11:44	-33.23	35876	248 12:59:05	43.16	32359	248 13:22:22	86.82	26100			
248 14:57:05	-59.69	35877	248 14:43:58	16.82	32360	248 15:07:17	60.47	26101			
248 16:42:26	-86.15	35878	248 16:28:50	-9.52	32361	248 16:52:13	34.11	26102			
248 18:27:47	-112.61	35879	248 18:13:42	-35.87	32362	248 18:37:08	7.75	26103			
248 20:13:07	-139.08	35880	248 19:58:34	-62.21	32363	248 20:22:04	-18.60	26104			
248 21:58:28	-165.54	35881	248 21:43:27	-88.55	32364	248 22:06:59	-44.96	26105			
248 23:43:49	168.00	35882	248 23:28:19	-114.90	32365	248 23:51:54	-71.32	26106			

West longitude is negative (-)

SATELLITE S2

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

245 00:49:40	-120.37	24331
245 02:31:43	-145.88	24332
245 04:13:46	-171.40	24333
245 05:55:49	163.09	24334
245 07:37:52	137.58	24335
245 09:19:55	112.07	24336
245 11:01:58	86.56	24337
245 12:44:01	61.05	24338
245 14:26:04	35.54	24339
245 16:08:07	10.03	24340
245 17:50:10	-15.48	24341
245 19:32:13	-40.99	24342
245 21:14:16	-66.50	24343
245 22:56:19	-92.01	24344

SATELLITE S3

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

245 00:37:48	-76.34	15361
245 02:19:04	-101.86	15362
245 04:00:20	-127.18	15363
245 05:41:36	-152.50	15364
245 07:22:52	-177.82	15365
245 09:04:08	156.86	15366
245 10:45:24	131.55	15367
245 12:26:39	106.24	15368
245 14:07:55	80.92	15369
245 15:49:11	55.61	15370
245 17:30:27	30.29	15371
245 19:11:43	4.97	15372
245 20:52:59	-20.35	15373
245 22:34:15	-45.67	15374

SATELLITE S4

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

245 00:23:59	-138.69	4831
245 02:06:06	175.78	4832
245 03:48:14	150.24	4833
245 05:30:21	124.72	4834
245 07:12:29	99.18	4835
245 08:54:36	73.66	4836
245 10:36:43	48.13	4837
245 12:18:51	22.59	4838
245 14:00:58	-2.93	4839
245 15:43:06	-28.47	4840
245 17:25:13	-53.99	4841
245 19:07:21	-79.53	4842
245 20:49:28	-105.06	4843
245 22:31:35	-130.58	4844

246 00:38:22	-117.52	24345
246 02:20:25	-143.03	24346
246 04:02:28	-168.54	24347
246 05:44:31	165.95	24348
246 07:26:34	140.44	24349
246 09:08:37	114.93	24350
246 10:50:40	89.42	24351
246 12:32:43	63.91	24352
246 14:14:46	38.40	24353
246 15:56:49	12.89	24354
246 17:38:52	-12.62	24355
246 19:20:55	-38.14	24356
246 21:02:58	-63.65	24357
246 22:45:01	-89.16	24358

246 00:15:31	-70.99	15375
246 01:56:46	-96.29	15376
246 03:38:02	-121.61	15377
246 05:19:18	-146.93	15378
246 07:00:34	-172.24	15379
246 08:41:50	162.44	15380
246 10:23:06	137.12	15381
246 12:04:22	111.80	15382
246 13:45:38	86.48	15383
246 15:26:53	61.18	15384
246 17:08:09	35.86	15385
246 18:49:25	10.54	15386
246 20:30:41	-14.78	15387
246 22:11:57	-40.09	15388
246 23:53:13	-65.41	15389

246 00:13:43	-156.12	4845
246 01:55:50	178.35	4846
246 03:37:58	152.82	4847
246 05:20:05	127.29	4848
246 07:02:12	101.77	4849
246 08:44:20	76.23	4850
246 10:26:27	50.70	4851
246 12:08:35	25.17	4852
246 13:50:42	-3.36	4853
246 15:32:49	-25.98	4854
246 17:14:57	-51.42	4855
246 18:57:04	-76.95	4856
246 20:39:12	-102.49	4857
246 22:21:19	-128.01	4858

247 00:27:04	-114.67	24359
247 02:09:07	-140.18	24360
247 03:51:10	-165.69	24361
247 05:33:13	168.80	24362
247 07:15:16	143.29	24363
247 08:57:19	117.78	24364
247 10:39:22	92.27	24365
247 12:21:25	66.76	24366
247 14:03:28	41.25	24367
247 15:45:31	15.74	24368
247 17:27:34	-9.77	24369
247 19:09:37	-35.28	24370
247 20:51:40	-60.79	24371
247 22:33:43	-86.30	24372

247 01:34:29	-90.73	15390
247 03:15:45	-116.05	15391
247 04:57:00	-141.35	15392
247 06:38:16	-166.67	15393
247 08:19:32	168.01	15394
247 10:00:48	142.69	15395
247 11:42:04	117.37	15396
247 13:23:20	92.06	15397
247 15:04:36	66.74	15398
247 16:45:52	41.42	15399
247 18:27:07	16.11	15400
247 20:08:23	-9.20	15401
247 21:49:39	-34.52	15402
247 23:30:55	-59.84	15403

247 00:03:26	-153.54	4859
247 01:45:34	-179.07	4860
247 03:27:41	155.40	4861
247 05:09:49	129.86	4862
247 06:51:56	104.34	4863
247 08:34:03	78.81	4864
247 10:16:11	53.28	4865
247 11:58:18	27.75	4866
247 13:40:26	2.21	4867
247 15:22:33	-23.31	4868
247 17:04:40	-48.84	4869
247 18:46:48	-74.38	4870
247 20:28:55	-99.90	4871
247 22:11:03	-125.44	4872
247 23:53:10	-150.96	4873

248 00:15:46	-111.81	24373
248 01:57:48	-137.31	24374
248 03:39:51	-162.82	24375
248 05:21:54	171.67	24376
248 07:03:57	146.16	24377
248 08:46:00	120.65	24378
248 10:28:03	95.14	24379
248 12:10:06	69.63	24380
248 13:52:09	44.12	24381
248 15:34:12	18.61	24382
248 17:16:15	-6.90	24383
248 18:58:18	-32.41	24384
248 20:40:21	-57.92	24385
248 22:22:24	-83.44	24386

248 01:12:11	-85.16	15404
248 02:53:27	-110.48	15405
248 04:34:43	-135.79	15406
248 06:15:58	-161.10	15407
248 07:57:14	173.58	15408
248 09:38:30	148.26	15409
248 11:19:46	122.95	15410
248 13:01:02	97.63	15411
248 14:42:18	72.31	15412
248 16:23:34	46.99	15413
248 18:04:50	21.67	15414
248 19:46:05	-3.63	15415
248 21:27:21	-28.95	15416
248 23:08:37	-54.27	15417

248 01:35:18	-176.50	4874
248 03:17:25	157.97	4875
248 04:59:32	132.45	4876
248 06:41:40	106.91	4877
248 08:23:47	81.39	4878
248 10:05:55	55.85	4879
248 11:48:02	30.32	4880
248 13:30:09	4.80	4881
248 15:12:17	-20.74	4882
248 16:54:24	-46.27	4883
248 18:36:32	-71.80	4884
248 20:18:39	-97.33	4885
248 22:00:46	-122.85	4886
248 23:42:54	-148.39	4887

SATELLITE C1**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

249 01:29:10	141.54	35883
249 03:14:31	115.08	35884
249 04:59:52	88.61	35885
249 06:45:12	62.15	35886
249 08:30:33	35.69	35887
249 10:15:54	9.23	35888
249 12:01:15	-17.24	35889
249 13:46:36	-43.70	35890
249 15:31:56	-70.16	35891
249 17:17:17	-96.63	35892
249 19:02:38	-123.09	35893
249 20:47:59	-149.55	35894
249 22:33:20	-176.01	35895

SATELLITE C2**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

249 01:13:11	-141.24	32366
249 02:58:03	-167.59	32367
249 04:42:56	166.07	32368
249 06:27:48	139.73	32369
249 08:12:40	113.39	32370
249 09:57:32	87.04	32371
249 11:42:25	60.70	32372
249 13:27:17	34.36	32373
249 15:12:09	8.01	32374
249 16:57:01	-18.33	32375
249 18:41:54	-44.67	32376
249 20:26:46	-71.02	32377
249 22:11:38	-97.36	32378
249 23:56:31	-123.70	32379

SATELLITE C3**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

249 01:36:50	-97.67	26107
249 03:21:45	-124.03	26108
249 05:06:41	-150.38	26109
249 06:51:36	-176.74	26110
249 08:36:31	156.90	26111
249 10:21:27	130.55	26112
249 12:06:22	104.19	26113
249 13:51:18	77.83	26114
249 15:36:13	51.48	26115
249 17:21:08	25.12	26116
249 19:06:04	-1.24	26117
249 20:50:59	-27.59	26118
249 22:35:55	-53.95	26119

250 00:18:40	157.52	35896
250 02:04:01	131.06	35897
250 03:49:22	104.60	35898
250 05:34:43	78.14	35899
250 07:20:04	51.68	35900
250 09:05:24	25.21	35901
250 10:50:45	-1.25	35902
250 12:36:06	-27.71	35903
250 14:21:27	-54.17	35904
250 16:06:48	-80.64	35905
250 17:52:08	-107.10	35906
250 19:37:29	-133.56	35907
250 21:22:50	-160.02	35908
250 23:08:11	173.51	35909

250 01:41:23	-150.05	32380
250 03:26:15	-176.39	32381
250 05:11:07	157.27	32382
250 06:56:00	130.92	32383
250 08:40:52	104.58	32384
250 10:25:44	78.24	32385
250 12:10:36	51.89	32386
250 13:55:29	25.55	32387
250 15:40:21	-.79	32388
250 17:25:13	-27.14	32389
250 19:10:05	-53.48	32390
250 20:54:58	-79.82	32391
250 22:39:50	-106.17	32392

250 00:20:30	-80.30	26120
250 02:05:45	-106.66	26121
250 03:50:41	-133.02	26122
250 05:35:36	-159.37	26123
250 07:20:32	174.27	26124
250 09:05:27	147.91	26125
250 10:50:22	121.56	26126
250 12:35:18	95.20	26127
250 14:20:13	68.84	26128
250 16:05:09	42.49	26129
250 17:50:04	16.13	26130
250 19:34:59	-10.23	26131
250 21:19:55	-36.58	26132
250 23:04:50	-62.94	26133

251 00:53:32	147.05	35910
251 02:38:53	120.59	35911
251 04:24:13	94.13	35912
251 06:09:34	67.66	35913
251 07:54:55	41.20	35914
251 09:40:16	14.74	35915
251 11:25:37	-11.72	35916
251 13:10:57	-38.19	35917
251 14:56:18	-64.65	35918
251 16:41:39	-91.11	35919
251 18:27:00	-117.57	35920
251 20:12:21	-144.03	35921
251 21:57:41	-170.50	35922
251 23:43:02	163.04	35923

251 00:24:42	-132.51	32393
251 02:09:34	-158.85	32394
251 03:54:27	174.86	32395
251 05:39:19	148.46	32396
251 07:24:11	122.12	32397
251 09:09:03	95.77	32398
251 10:53:56	69.43	32399
251 12:38:48	43.09	32400
251 14:23:40	16.74	32401
251 16:08:32	-9.60	32402
251 17:53:25	-35.94	32403
251 19:38:17	-62.29	32404
251 21:23:09	-88.63	32405
251 23:08:01	-114.97	32406

251 00:49:46	-89.29	26134
251 02:34:41	-115.65	26135
251 04:19:36	-142.01	26136
251 06:04:32	-168.36	26137
251 07:49:27	165.28	26138
251 09:34:23	138.92	26139
251 11:19:18	112.57	26140
251 13:04:13	86.21	26141
251 14:49:09	59.86	26142
251 16:34:04	33.50	26143
251 18:19:00	7.14	26144
251 20:03:55	-19.21	26145
251 21:48:50	-45.57	26146
251 23:33:46	-71.93	26147

252 01:28:23	136.58	35924
252 03:13:44	110.12	35925
252 04:59:05	83.65	35926
252 06:44:25	57.19	35927
252 08:29:46	30.73	35928
252 10:15:07	4.26	35929
252 12:00:28	-22.20	35930
252 13:45:49	-48.66	35931
252 15:31:10	-75.12	35932
252 17:16:30	-101.59	35933
252 19:01:51	-128.05	35934
252 20:47:12	-154.51	35935
252 22:32:33	179.03	35936

252 00:32:54	-141.31	32407
252 02:37:46	-167.66	32408
252 04:22:38	166.00	32409
252 06:07:30	139.65	32410
252 07:52:23	113.31	32411
252 09:37:15	86.97	32412
252 11:22:07	60.62	32413
252 13:06:59	34.28	32414
252 14:51:52	7.94	32415
252 16:36:44	-18.41	32416
252 18:21:36	-44.75	32417
252 20:06:28	-71.09	32418
252 21:51:21	-97.43	32419
252 23:36:13	-123.78	32420

252 01:18:41	-98.28	26148
252 03:03:37	-124.64	26149
252 04:48:32	-151.00	26150
252 06:33:27	-177.35	26151
252 08:18:23	156.29	26152
252 10:03:18	129.93	26153
252 11:48:14	103.58	26154
252 13:33:09	77.22	26155
252 15:18:04	50.86	26156
252 17:03:00	24.51	26157
252 18:47:55	-1.85	26158
252 20:32:51	-28.20	26159
252 22:17:46	-54.56	26160

SATELLITE S2

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

249 00:04:27	-108.93	24387
249 01:46:30	-134.46	24388
249 03:28:33	-159.97	24389
249 05:10:36	174.52	24390
249 06:52:39	149.01	24391
249 08:34:42	123.50	24392
249 10:16:45	97.99	24393
249 11:58:48	72.48	24394
249 13:40:51	46.97	24395
249 15:22:54	21.46	24396
249 17:04:57	-4.05	24397
249 18:47:00	-29.56	24398
249 20:29:03	-55.07	24399
249 22:11:06	-80.58	24400
249 23:53:09	-106.09	24401

SATELLITE S3

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

249 00:49:53	-79.39	15418
249 02:31:09	-104.90	15419
249 04:12:25	-130.22	15420
249 05:53:41	-155.54	15421
249 07:34:57	179.14	15422
249 09:16:12	153.84	15423
249 10:57:28	128.52	15424
249 12:38:44	103.20	15425
249 14:20:00	77.88	15426
249 16:01:16	52.56	15427
249 17:42:32	27.25	15428
249 19:23:48	1.93	15429
249 21:05:04	-23.39	15430
249 22:46:19	-48.69	15431

SATELLITE S4

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

249 01:23:01	-173.92	4888
249 03:07:09	160.55	4889
249 04:49:16	135.02	4890
249 06:31:23	109.50	4891
249 08:13:31	83.96	4892
249 09:55:38	58.43	4893
249 11:37:46	32.89	4894
249 13:19:53	7.37	4895
249 15:02:00	-18.16	4896
249 16:44:08	-43.69	4897
249 18:26:15	-69.22	4898
249 20:08:23	-94.76	4899
249 21:50:30	-120.28	4900
249 23:32:37	-145.81	4901

250 01:35:12	-131.60	24402
250 03:17:15	-157.11	24403
250 04:59:18	177.38	24404
250 06:41:21	151.87	24405
250 08:23:24	126.36	24406
250 10:05:27	100.85	24407
250 11:47:30	75.33	24408
250 13:29:33	49.82	24409
250 15:11:36	24.31	24410
250 16:53:39	-1.20	24411
250 18:35:42	-26.71	24412
250 20:17:45	-52.22	24413
250 21:59:47	-77.71	24414
250 23:41:50	-103.23	24415

250 00:27:35	-74.01	15432
250 02:08:51	-99.33	15433
250 03:50:07	-124.65	15434
250 05:31:23	-149.97	15435
250 07:12:39	-175.29	15436
250 08:53:55	159.40	15437
250 10:35:11	134.08	15438
250 12:16:26	108.77	15439
250 13:57:42	83.46	15440
250 15:38:58	58.14	15441
250 17:20:14	32.82	15442
250 19:01:30	7.50	15443
250 20:42:46	-17.82	15444
250 22:24:02	-43.14	15445

250 01:14:45	-171.34	4902
250 02:56:52	163.13	4903
250 04:39:00	137.59	4904
250 06:21:07	112.07	4905
250 08:03:14	86.54	4906
250 09:45:22	61.00	4907
250 11:27:29	35.48	4908
250 13:09:37	9.94	4909
250 14:51:44	-15.58	4910
250 16:33:52	-41.12	4911
250 18:15:59	-66.65	4912
250 19:58:06	-92.17	4913
250 21:40:14	-117.71	4914
250 23:22:21	-143.24	4915

251 01:23:53	-128.74	24416
251 03:05:56	-154.25	24417
251 04:47:59	-179.76	24418
251 06:30:02	154.73	24419
251 08:12:05	129.22	24420
251 09:54:08	103.71	24421
251 11:36:11	78.20	24422
251 13:18:14	52.69	24423
251 15:00:17	27.18	24424
251 16:42:20	1.67	24425
251 18:24:23	-23.84	24426
251 20:06:26	-49.35	24427
251 21:48:29	-74.86	24428
251 23:30:32	-100.37	24429

251 00:05:17	-68.44	15446
251 01:46:33	-93.76	15447
251 03:27:49	-119.08	15448
251 05:09:05	-144.39	15449
251 06:50:21	-169.71	15450
251 08:31:37	164.97	15451
251 10:12:53	139.65	15452
251 11:54:09	114.33	15453
251 13:35:24	89.03	15454
251 15:16:40	63.71	15455
251 16:57:56	38.39	15456
251 18:39:12	13.07	15457
251 20:20:28	-12.24	15458
251 22:01:44	-37.56	15459
251 23:43:00	-62.88	15460

251 01:04:29	-168.77	4916
251 02:46:36	165.70	4917
251 04:28:43	140.18	4918
251 06:10:51	114.64	4919
251 07:52:58	89.11	4920
251 09:35:06	63.58	4921
251 11:17:13	38.05	4922
251 12:59:20	12.53	4923
251 14:41:28	-13.01	4924
251 16:23:35	-38.54	4925
251 18:05:43	-64.08	4926
251 19:47:50	-89.60	4927
251 21:29:57	-115.13	4928
251 23:12:05	-140.66	4929

252 01:12:35	-125.88	24430
252 02:54:38	-151.39	24431
252 04:36:41	-176.90	24432
252 06:18:44	157.59	24433
252 08:00:47	132.08	24434
252 09:42:50	106.57	24435
252 11:24:53	81.06	24436
252 13:06:56	55.54	24437
252 14:48:59	30.03	24438
252 16:31:02	4.52	24439
252 18:13:05	-20.99	24440
252 19:55:08	-46.50	24441
252 21:37:11	-72.01	24442
252 23:19:14	-97.52	24443

252 01:24:16	-88.20	15461
252 03:05:31	-113.50	15462
252 04:46:47	-138.82	15463
252 06:28:03	-164.14	15464
252 08:09:19	170.54	15465
252 09:50:35	145.22	15466
252 11:31:51	119.91	15467
252 13:13:07	94.59	15468
252 14:54:23	69.27	15469
252 16:35:38	43.96	15470
252 18:16:54	18.65	15471
252 19:58:10	-6.67	15472
252 21:39:26	-31.99	15473
252 23:20:42	-57.31	15474

252 00:54:12	-166.19	4930
252 02:36:20	168.27	4931
252 04:18:27	142.75	4932
252 06:00:34	117.22	4933
252 07:42:42	91.69	4934
252 09:24:49	66.16	4935
252 11:06:57	40.62	4936
252 12:49:04	15.10	4937
252 14:31:11	-10.43	4938
252 16:13:19	-35.97	4939
252 17:55:26	-61.49	4940
252 19:37:34	-87.03	4941
252 21:19:41	-112.55	4942
252 23:01:48	-138.08	4943

SATELLITE C1**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT) E LONG ORBIT

day hr mn sc deg dg

253 00:17:54	152.57	35937
253 02:03:14	126.10	35938
253 03:48:35	99.64	35939
253 05:33:56	73.18	35940
253 07:19:17	46.72	35941
253 09:04:38	20.25	35942
253 10:49:58	-6.21	35943
253 12:35:19	-32.67	35944
253 14:20:40	-59.13	35945
253 16:06:01	-85.60	35946
253 17:51:22	-112.06	35947
253 19:36:42	-138.52	35948
253 21:22:03	-164.98	35949
253 23:07:24	168.55	35950

SATELLITE C2**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT) E LONG ORBIT

day hr mn sc deg dg

253 01:21:05	-150.12	32421
253 03:05:57	-176.47	32422
253 04:50:50	157.19	32423
253 06:35:42	130.85	32424
253 08:20:34	104.50	32425
253 10:05:26	78.16	32426
253 11:50:19	51.82	32427
253 13:35:11	25.48	32428
253 15:20:03	-87	32429
253 17:04:55	-27.21	32430
253 18:49:48	-53.55	32431
253 20:34:40	-79.90	32432
253 22:19:32	-106.24	32433

SATELLITE C3**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT) E LONG ORBIT

day hr mn sc deg dg

253 00:02:41	-80.92	26161
253 01:47:37	-107.27	26162
253 03:32:32	-133.63	26163
253 05:17:28	-159.98	26164
253 07:02:23	173.66	26165
253 08:47:18	147.30	26166
253 10:32:14	120.95	26167
253 12:17:09	94.59	26168
253 14:02:05	68.23	26169
253 15:47:00	41.88	26170
253 17:31:55	15.52	26171
253 19:16:51	-10.84	26172
253 21:01:46	-37.19	26173
253 22:46:42	-63.55	26174

254 00:32:45	142.09	35951
254 02:38:06	115.63	35952
254 04:23:27	89.17	35953
254 06:08:47	62.70	35954
254 07:54:08	36.24	35955
254 09:39:29	9.78	35956
254 11:24:50	-16.68	35957
254 13:10:11	-43.14	35958
254 14:55:31	-69.61	35959
254 16:40:52	-96.07	35960
254 18:26:13	-122.53	35961
254 20:11:34	-148.99	35962
254 21:56:55	-175.46	35963
254 23:42:15	158.08	35964

254 00:04:24	-132.59	32434
254 01:49:17	-158.93	32435
254 03:34:09	174.73	32436
254 05:19:01	148.38	32437
254 07:03:53	122.04	32438
254 08:48:46	95.70	32439
254 10:33:38	69.36	32440
254 12:18:30	43.01	32441
254 14:03:22	16.67	32442
254 15:48:15	-9.67	32443
254 17:33:07	-36.02	32444
254 19:17:59	-62.36	32445
254 21:02:51	-88.71	32446
254 22:47:44	-115.05	32447

254 00:31:37	-89.91	26175
254 02:16:32	-116.26	26176
254 04:01:28	-142.62	26177
254 05:46:23	-168.98	26178
254 07:31:19	164.67	26179
254 09:16:14	138.31	26180
254 11:01:09	111.95	26181
254 12:46:05	85.60	26182
254 14:31:00	59.24	26183
254 16:15:56	32.89	26184
254 18:00:51	6.53	26185
254 19:45:46	-19.83	26186
254 21:30:42	-46.18	26187
254 23:15:37	-72.54	26188

255 01:27:36	131.62	35965
255 03:12:57	105.15	35966
255 04:58:18	78.69	35967
255 06:43:39	52.23	35968
255 08:29:00	25.77	35969
255 10:14:20	-70	35970
255 11:59:41	-27.16	35971
255 13:45:02	-53.62	35972
255 15:30:23	-80.08	35973
255 17:15:44	-106.54	35974
255 19:01:04	-133.01	35975
255 20:46:25	-159.47	35976
255 22:31:46	174.07	35977

255 00:32:36	-141.39	32448
255 02:17:28	-167.74	32449
255 04:02:21	165.92	32450
255 05:47:13	139.58	32451
255 07:32:05	113.24	32452
255 09:16:57	86.89	32453
255 11:01:50	60.55	32454
255 12:46:42	34.21	32455
255 14:31:34	7.86	32456
255 16:16:26	-18.48	32457
255 18:01:19	-44.82	32458
255 19:46:11	-71.17	32459
255 21:31:03	-97.51	32460
255 23:15:55	-123.85	32461

255 01:00:33	-98.89	26189
255 02:45:28	-125.25	26190
255 04:30:23	-151.61	26191
255 06:15:19	-177.96	26192
255 08:00:14	155.68	26193
255 09:45:10	129.32	26194
255 11:30:05	102.97	26195
255 13:15:00	76.61	26196
255 14:59:56	50.25	26197
255 16:44:51	23.90	26198
255 18:29:47	-2.46	26199
255 20:14:42	-28.82	26200
255 21:59:37	-55.17	26201
255 23:44:33	-81.53	26202

256 00:17:07	147.61	35978
256 02:02:28	121.14	35979
256 03:47:48	94.68	35980
256 05:33:09	68.22	35981
256 07:18:30	41.76	35982
256 09:03:51	15.29	35983
256 10:49:12	-11.17	35984
256 12:34:33	-37.63	35985
256 14:19:53	-64.09	35986
256 16:05:14	-90.56	35987
256 17:50:35	-117.02	35988
256 19:35:56	-143.48	35989
256 21:21:17	-169.94	35990
256 23:06:37	163.59	35991

256 01:00:48	-150.20	32462
256 02:45:40	-176.54	32463
256 04:30:32	157.12	32464
256 06:15:24	130.77	32465
256 08:00:17	104.43	32466
256 09:45:09	78.09	32467
256 11:30:01	51.74	32468
256 13:14:53	25.40	32469
256 14:59:46	-94	32470
256 16:44:38	-27.29	32471
256 18:29:30	-53.63	32472
256 20:14:22	-79.97	32473
256 21:59:15	-106.32	32474
256 23:44:07	-132.66	32475

256 01:29:28	-107.88	26203
256 03:14:24	-134.24	26204
256 04:59:19	-160.60	26205
256 06:44:14	173.03	26206
256 08:29:10	146.69	26207
256 10:14:05	120.33	26208
256 11:59:01	93.98	26209
256 13:43:56	67.62	26210
256 15:28:51	41.26	26211
256 17:13:47	14.91	26212
256 18:58:42	-11.45	26213
256 20:43:38	-37.80	26214
256 22:28:33	-64.16	26215

SATELLITE S2				SATELLITE S3				SATELLITE S4			
Ascending Node Predictions				Ascending Node Predictions				Ascending Node Predictions			
Predicting for 183 days				Predicting for 183 days				Predicting for 183 days			
TIME (GMT)	E LONG	ORBIT		TIME (GMT)	E LONG	ORBIT		TIME (GMT)	E LONG	ORBIT	
day hr mn sc	deg dg			day hr mn sc	deg dg			day hr mn sc	deg dg		
253 01:01:17	-123.03	24444		253 01:01:58	-82.63	15475		253 00:43:56	-163.62	4944	
253 02:43:20	-148.54	24445		253 02:43:14	-107.94	15476		253 02:26:03	170.86	4945	
253 04:25:23	-174.05	24446		253 04:24:30	-133.26	15477		253 04:08:11	145.32	4946	
253 06:07:26	160.44	24447		253 06:05:45	-158.57	15478		253 05:50:18	119.80	4947	
253 07:49:29	134.93	24448		253 07:47:01	176.11	15479		253 07:32:26	94.26	4948	
253 09:31:32	109.42	24449		253 09:28:17	150.80	15480		253 09:14:33	68.73	4949	
253 11:13:35	83.91	24450		253 11:09:33	125.48	15481		253 10:56:40	43.21	4950	
253 12:55:38	58.40	24451		253 12:50:49	100.16	15482		253 12:38:48	17.67	4951	
253 14:37:40	32.90	24452		253 14:32:05	74.84	15483		253 14:20:55	-7.86	4952	
253 16:19:43	7.39	24453		253 16:13:21	49.52	15484		253 16:03:03	-33.39	4953	
253 18:01:46	-18.12	24454		253 17:54:37	24.21	15485		253 17:45:10	-58.92	4954	
253 19:43:49	-43.63	24455		253 19:35:52	-1.10	15486		253 19:27:17	-84.44	4955	
253 21:25:52	-69.14	24456		253 21:17:08	-26.42	15487		253 21:09:25	-109.98	4956	
253 23:07:55	-94.65	24457		253 22:58:24	-51.74	15488		253 22:51:32	-135.51	4957	
254 00:49:58	-120.16	24458		254 00:39:40	-77.05	15489		254 00:33:40	-161.05	4958	
254 02:32:01	-145.67	24459		254 02:20:56	-102.37	15490		254 02:15:47	173.43	4959	
254 04:14:04	-171.18	24460		254 04:02:12	-127.69	15491		254 03:57:54	147.91	4960	
254 05:56:07	163.31	24461		254 05:43:28	-153.01	15492		254 05:40:02	122.37	4961	
254 07:38:10	137.80	24462		254 07:24:43	-178.31	15493		254 07:22:09	96.84	4962	
254 09:20:13	112.29	24463		254 09:05:59	156.37	15494		254 09:04:17	71.30	4963	
254 11:02:16	86.78	24464		254 10:47:15	131.05	15495		254 10:46:24	45.78	4964	
254 12:44:19	61.26	24465		254 12:28:31	105.73	15496		254 12:28:31	20.25	4965	
254 14:26:22	35.75	24466		254 14:09:47	80.41	15497		254 14:10:39	-5.28	4966	
254 16:08:25	10.24	24467		254 15:51:03	55.10	15498		254 15:52:46	-30.81	4967	
254 17:50:28	-15.27	24468		254 17:32:19	29.78	15499		254 17:34:54	-56.35	4968	
254 19:32:31	-40.78	24469		254 19:13:35	4.46	15500		254 19:17:01	-81.87	4969	
254 21:14:34	-66.29	24470		254 20:54:50	-20.85	15501		254 20:59:08	-107.40	4970	
254 22:56:37	-91.80	24471		254 22:36:06	-46.16	15502		254 22:41:16	-132.94	4971	
255 00:38:40	-117.31	24472		255 00:17:22	-71.48	15503		255 00:23:23	-158.46	4972	
255 02:20:43	-142.82	24473		255 01:58:38	-96.80	15504		255 02:05:31	176.00	4973	
255 04:02:46	-168.33	24474		255 03:39:54	-122.12	15505		255 03:47:38	150.48	4974	
255 05:44:49	166.16	24475		255 05:21:10	-147.44	15506		255 05:29:45	124.95	4975	
255 07:26:52	140.65	24476		255 07:02:26	-172.75	15507		255 07:11:53	99.41	4976	
255 09:08:55	115.14	24477		255 08:43:42	161.93	15508		255 08:54:00	73.89	4977	
255 10:50:58	89.63	24478		255 10:24:57	136.62	15509		255 10:36:08	48.35	4978	
255 12:33:01	64.12	24479		255 12:06:13	111.30	15510		255 12:18:15	22.83	4979	
255 14:15:04	38.61	24480		255 13:47:29	85.99	15511		255 14:00:22	-2.70	4980	
255 15:57:07	13.10	24481		255 15:28:45	60.67	15512		255 15:42:30	-28.24	4981	
255 17:39:10	-12.41	24482		255 17:10:01	35.35	15513		255 17:24:37	-53.76	4982	
255 19:21:13	-37.92	24483		255 18:51:17	10.03	15514		255 19:06:45	-79.30	4983	
255 21:03:16	-63.43	24484		255 20:32:33	-15.29	15515		255 20:48:52	-104.83	4984	
255 22:45:19	-88.94	24485		255 22:13:49	-40.60	15516		255 22:31:00	-130.36	4985	
255 23:55:04	-65.91	15517									
256 00:27:22	-114.46	24486		256 01:36:20	-91.23	15518		256 00:13:07	-155.89	4986	
256 02:09:25	-139.97	24487		256 03:17:36	-116.55	15519		256 01:55:14	178.59	4987	
256 03:51:28	-165.48	24488		256 04:58:52	-141.86	15520		256 03:37:22	153.05	4988	
256 05:33:30	169.03	24489		256 06:40:08	-167.18	15521		256 05:19:29	127.52	4989	
256 07:15:33	143.52	24490		256 08:21:24	167.50	15522		256 07:01:37	101.99	4990	
256 08:57:36	118.01	24491		256 10:02:40	142.18	15523		256 08:43:44	76.46	4991	
256 10:39:39	92.50	24492		256 11:43:56	116.86	15524		256 10:25:51	50.94	4992	
256 12:21:42	66.98	24493		256 13:25:11	91.56	15525		256 12:07:59	25.40	4993	
256 14:03:45	41.47	24494		256 15:06:27	66.24	15526		256 13:50:06	-1.13	4994	
256 15:45:48	15.96	24495		256 16:47:43	40.92	15527		256 15:32:14	-25.67	4995	
256 17:27:51	-9.55	24496		256 18:28:59	15.60	15528		256 17:14:21	-51.19	4996	
256 19:09:54	-35.06	24497		256 20:10:15	-9.71	15529		256 18:56:28	-76.72	4997	
256 20:51:57	-60.57	24498		256 21:51:31	-35.03	15530		256 20:38:36	-102.25	4998	
256 22:34:00	-86.08	24499		256 23:32:47	-60.35	15531		256 22:20:43	-127.78	4999	

SATELLITE C1
Ascending Node Predictions

Predicting for 183 days

 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

257 00:31:58	137.13	35992
257 02:37:19	110.67	35993
257 04:22:40	84.21	35994
257 06:08:01	57.75	35995
257 07:53:21	31.28	35996
257 09:38:42	4.82	35997
257 11:24:03	-21.64	35998
257 13:09:24	-48.11	35999
257 14:54:45	-74.57	36000
257 16:40:05	-101.03	36001
257 18:25:26	-127.49	36002
257 20:10:47	-153.96	36003
257 21:56:08	-179.58	36004
257 23:41:29	-153.12	36005

SATELLITE C2
Ascending Node Predictions

Predicting for 183 days

 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

257 01:28:59	-159.00	32476
257 03:13:51	174.65	32477
257 04:58:44	148.31	32478
257 06:43:36	121.97	32479
257 08:28:28	95.62	32480
257 10:13:20	69.28	32481
257 11:58:13	42.94	32482
257 13:43:05	16.59	32483
257 15:27:57	-9.75	32484
257 17:12:49	-36.09	32485
257 18:57:42	-62.44	32486
257 20:42:34	-88.78	32487
257 22:27:26	-115.12	32488

SATELLITE C3
Ascending Node Predictions

Predicting for 183 days

 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

257 00:13:28	-90.52	26216
257 01:58:24	-116.87	26217
257 03:43:19	-143.23	26218
257 05:28:15	-169.58	26219
257 07:13:10	164.06	26220
257 08:58:05	137.70	26221
257 10:43:01	111.35	26222
257 12:27:56	84.99	26223
257 14:12:52	58.63	26224
257 15:57:47	32.28	26225
257 17:42:42	5.92	26226
257 19:27:38	-20.44	26227
257 21:12:33	-46.79	26228
257 22:57:29	-73.15	26229

258 01:26:50	126.66	36006
258 03:12:10	100.19	36007
258 04:57:31	73.73	36008
258 06:42:52	47.27	36009
258 08:28:13	20.81	36010
258 10:13:34	-5.65	36011
258 11:58:54	-32.12	36012
258 13:44:15	-58.58	36013
258 15:29:36	-85.04	36014
258 17:14:57	-111.50	36015
258 19:00:18	-137.97	36016
258 20:45:38	-164.43	36017
258 22:30:59	169.11	36018

258 00:12:18	-141.47	32489
258 01:57:11	-167.81	32490
258 03:42:03	165.85	32491
258 05:26:55	139.50	32492
258 07:11:47	113.16	32493
258 08:56:40	86.82	32494
258 10:41:32	60.47	32495
258 12:26:24	34.13	32496
258 14:11:17	7.79	32497
258 15:56:09	-18.56	32498
258 17:41:01	-44.90	32499
258 19:26:53	-71.24	32500
258 21:10:46	-97.58	32501
258 22:55:38	-123.93	32502

258 00:42:24	-99.51	26230
258 02:27:19	-125.86	26231
258 04:12:15	-152.22	26232
258 05:57:10	-178.58	26233
258 07:42:06	135.07	26234
258 09:27:01	129.71	26235
258 11:11:56	102.35	26236
258 12:56:52	76.00	26237
258 14:41:47	49.64	26238
258 16:26:43	23.29	26239
258 18:11:38	-3.07	26240
258 19:56:33	-29.43	26241
258 21:41:29	-55.78	26242
258 23:26:24	-82.14	26243

259 00:16:20	142.64	36019
259 02:01:41	116.18	36020
259 03:47:02	89.72	36021
259 05:32:23	63.26	36022
259 07:17:43	36.79	36023
259 09:03:04	10.33	36024
259 10:48:25	-16.13	36025
259 12:33:46	-42.59	36026
259 14:19:07	-69.05	36027
259 16:04:27	-95.52	36028
259 17:49:48	-121.98	36029
259 19:35:09	-148.44	36030
259 21:20:30	-174.90	36031
259 23:05:51	158.63	36032

259 00:40:30	-150.27	32503
259 02:25:22	-176.62	32504
259 04:10:15	157.04	32505
259 05:55:07	130.70	32506
259 07:39:59	104.35	32507
259 09:24:51	78.01	32508
259 11:09:44	51.67	32509
259 12:54:36	25.32	32510
259 14:39:28	-1.02	32511
259 16:24:20	-27.36	32512
259 18:09:13	-53.70	32513
259 19:54:05	-80.05	32514
259 21:38:57	-106.39	32515
259 23:23:49	-132.74	32516

259 01:11:20	-108.49	26244
259 02:56:15	-134.85	26245
259 04:41:10	-161.21	26246
259 06:26:06	172.44	26247
259 08:11:01	146.08	26248
259 09:55:57	119.72	26249
259 11:40:52	93.37	26250
259 13:25:47	67.01	26251
259 15:10:43	40.65	26252
259 16:55:38	14.30	26253
259 18:40:34	-12.06	26254
259 20:25:29	-38.42	26255
259 22:10:24	-64.77	26256
259 23:55:20	-91.13	26257

260 00:31:11	132.17	36033
260 02:36:32	105.71	36034
260 04:21:53	79.25	36035
260 06:07:14	52.78	36036
260 07:52:35	26.32	36037
260 09:37:56	-1.14	36038
260 11:23:16	-26.60	36039
260 13:08:37	-53.07	36040
260 14:53:58	-79.53	36041
260 16:39:19	-105.99	36042
260 18:24:40	-132.45	36043
260 20:10:00	-158.92	36044
260 21:55:21	174.62	36045
260 23:40:42	148.16	36046

260 01:08:42	-159.08	32517
260 02:53:34	174.58	32518
260 04:38:26	148.23	32519
260 06:23:18	121.89	32520
260 08:08:11	95.55	32521
260 09:53:03	69.20	32522
260 11:37:55	42.86	32523
260 13:22:47	16.52	32524
260 15:07:40	-9.82	32525
260 16:52:32	-36.17	32526
260 18:37:24	-62.51	32527
260 20:22:16	-88.86	32528
260 22:07:09	-115.20	32529
260 23:52:01	-141.54	32530

260 01:40:15	-117.48	26258
260 03:25:11	-143.84	26259
260 05:10:06	-170.20	26260
260 06:55:01	163.45	26261
260 08:39:57	137.09	26262
260 10:24:52	110.73	26263
260 12:09:48	84.38	26264
260 13:54:43	58.02	26265
260 15:39:38	31.66	26266
260 17:24:34	5.31	26267
260 19:09:29	-21.05	26268
260 20:54:25	-47.40	26269
260 22:39:20	-73.76	26270

SATELLITE S2

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

257 00:16:03 -111.59 24500
 257 01:58:06 -137.10 24501
 257 03:40:09 -162.61 24502
 257 05:22:12 171.88 24503
 257 07:04:15 146.37 24504
 257 08:46:18 120.86 24505
 257 10:28:21 95.35 24506
 257 12:10:24 69.84 24507
 257 13:52:27 44.33 24508
 257 15:34:30 18.82 24509
 257 17:16:33 -6.69 24510
 257 18:58:36 -32.20 24511
 257 20:40:39 -57.71 24512
 257 22:22:42 -83.22 24513

SATELLITE S3

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

257 01:14:02 -85.65 15532
 257 02:55:18 -110.97 15533
 257 04:36:34 -136.29 15534
 257 06:17:50 -161.61 15535
 257 07:59:06 173.07 15536
 257 09:40:22 147.75 15537
 257 11:21:38 122.44 15538
 257 13:02:54 97.12 15539
 257 14:44:09 71.81 15540
 257 16:25:25 46.50 15541
 257 18:06:41 21.18 15542
 257 19:47:57 -4.14 15543
 257 21:29:13 -29.46 15544
 257 23:10:29 -54.78 15545

SATELLITE S4

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

257 00:02:51 -153.32 5000
 257 01:44:58 -178.84 5001
 257 03:27:05 155.63 5002
 257 05:09:13 130.10 5003
 257 06:51:20 104.57 5004
 257 08:33:28 79.03 5005
 257 10:15:35 53.51 5006
 257 11:57:42 27.98 5007
 257 13:39:50 2.44 5008
 257 15:21:57 -23.08 5009
 257 17:04:05 -48.62 5010
 257 18:46:12 -74.14 5011
 257 20:28:19 -99.67 5012
 257 22:10:27 -125.21 5013
 257 23:52:34 -150.73 5014

258 00:04:45 -108.74 24514
 258 01:46:48 -134.25 24515
 258 03:28:51 -159.76 24516
 258 05:10:54 174.73 24517
 258 06:52:57 149.22 24518
 258 08:35:00 123.71 24519
 258 10:17:03 98.20 24520
 258 11:59:06 72.69 24521
 258 13:41:09 47.18 24522
 258 15:23:12 21.67 24523
 258 17:05:14 -3.83 24524
 258 18:47:17 -29.34 24525
 258 20:29:20 -54.85 24526
 258 22:11:23 -80.36 24527
 258 23:53:26 -105.87 24528

258 00:51:45 -80.10 15546
 258 02:33:01 -105.41 15547
 258 04:14:16 -130.72 15548
 258 05:55:32 -156.04 15549
 258 07:36:48 178.65 15550
 258 09:18:04 153.33 15551
 258 10:59:20 128.01 15552
 258 12:40:36 102.69 15553
 258 14:21:52 77.37 15554
 258 16:03:08 52.05 15555
 258 17:44:23 26.75 15556
 258 19:25:39 1.43 15557
 258 21:06:55 -23.89 15558
 258 22:48:11 -49.20 15559

258 01:34:42 -176.27 5015
 258 03:16:49 158.21 5016
 258 04:58:57 132.67 5017
 258 06:41:04 107.14 5018
 258 08:23:11 81.62 5019
 258 10:05:19 56.08 5020
 258 11:47:26 30.55 5021
 258 13:29:34 5.02 5022
 258 15:11:41 -20.51 5023
 258 16:53:48 -46.03 5024
 258 18:35:56 -71.57 5025
 258 20:18:03 -97.10 5026
 258 22:00:11 -122.63 5027
 258 23:42:18 -148.16 5028

259 01:35:29 -131.38 24529
 259 03:17:32 -156.89 24530
 259 04:59:35 177.60 24531
 259 06:41:38 152.09 24532
 259 08:23:41 126.58 24533
 259 10:05:44 101.07 24534
 259 11:47:47 75.56 24535
 259 13:29:50 50.05 24536
 259 15:11:53 24.54 24537
 259 16:53:56 -.97 24538
 259 18:35:59 -26.48 24539
 259 20:18:02 -51.99 24540
 259 22:00:05 -77.51 24541
 259 23:42:08 -103.02 24542

259 00:29:27 -74.52 15560
 259 02:10:43 -99.84 15561
 259 03:51:59 -125.16 15562
 259 05:33:15 -150.48 15563
 259 07:14:30 -175.78 15564
 259 08:55:46 158.90 15565
 259 10:37:02 133.58 15566
 259 12:18:18 108.26 15567
 259 13:59:34 82.95 15568
 259 15:40:50 57.63 15569
 259 17:22:06 32.31 15570
 259 19:03:22 6.99 15571
 259 20:44:37 -18.31 15572
 259 22:25:53 -43.63 15573

259 01:24:23 -173.68 5029
 259 03:06:33 160.78 5030
 259 04:48:40 135.25 5031
 259 06:30:48 109.71 5032
 259 08:12:55 84.19 5033
 259 09:55:02 58.66 5034
 259 11:37:10 33.13 5035
 259 13:19:17 7.60 5036
 259 15:01:25 -17.94 5037
 259 16:43:32 -43.46 5038
 259 18:25:39 -68.99 5039
 259 20:07:47 -94.52 5040
 259 21:49:54 -120.05 5041
 259 23:32:02 -145.59 5042

260 01:24:11 -128.53 24543
 260 03:06:14 -154.04 24544
 260 04:48:17 -179.53 24545
 260 06:30:20 154.94 24546
 260 08:12:23 129.43 24547
 260 09:54:26 103.92 24548
 260 11:36:29 78.91 24549
 260 13:18:32 52.90 24550
 260 15:00:35 27.39 24551
 260 16:42:38 1.88 24552
 260 18:24:41 -23.63 24553
 260 20:06:44 -49.14 24554
 260 21:48:47 -74.65 24555
 260 23:30:50 -100.16 24556

260 00:07:09 -68.95 15574
 260 01:48:25 -94.27 15575
 260 03:29:41 -119.59 15576
 260 05:10:57 -144.90 15577
 260 06:52:13 -170.22 15578
 260 08:33:29 164.46 15579
 260 10:14:44 139.15 15580
 260 11:56:00 113.84 15581
 260 13:37:16 88.52 15582
 260 15:18:32 63.20 15583
 260 16:59:48 37.98 15584
 260 18:41:04 12.56 15585
 260 20:22:20 -12.75 15586
 260 22:03:35 -38.06 15587
 260 23:44:51 -63.38 15588

260 01:14:09 -171.11 5043
 260 02:56:16 163.36 5044
 260 04:38:24 137.82 5045
 260 06:20:31 112.30 5046
 260 08:02:39 86.76 5047
 260 09:44:46 61.24 5048
 260 11:26:54 35.70 5049
 260 13:09:01 10.17 5050
 260 14:51:08 -15.35 5051
 260 16:33:16 -40.89 5052
 260 18:15:23 -66.41 5053
 260 19:57:31 -91.95 5054
 260 21:39:38 -117.48 5055
 260 23:21:45 -143.00 5056

SATELLITE C1**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

261 01:26:03	121.70	36047
261 03:11:24	95.24	36048
261 04:56:45	68.77	36049
261 06:42:05	42.31	36050
261 08:27:26	15.85	36051
261 10:12:47	-10.62	36052
261 11:58:08	-37.08	36053
261 13:43:29	-63.54	36054
261 15:28:49	-90.00	36055
261 17:14:10	-116.47	36056
261 18:59:31	-142.93	36057
261 20:44:52	-169.39	36058
261 22:30:13	164.15	36059

SATELLITE C2**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

261 01:36:53	-167.89	32531
261 03:21:45	165.77	32532
261 05:06:38	139.43	32533
261 06:51:30	113.08	32534
261 08:36:22	86.74	32535
261 10:21:14	60.40	32536
261 12:06:07	34.06	32537
261 13:50:59	7.71	32538
261 15:35:51	-18.63	32539
261 17:20:44	-44.97	32540
261 19:05:36	-71.32	32541
261 20:50:28	-97.66	32542
261 22:35:20	-124.01	32543

SATELLITE C3**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

261 00:24:15	-100.12	26271
261 02:09:11	-126.47	26272
261 03:54:06	-152.83	26273
261 05:39:02	-179.19	26274
261 07:23:57	154.46	26275
261 09:08:52	128.10	26276
261 10:53:48	101.75	26277
261 12:38:43	75.39	26278
261 14:23:39	49.03	26279
261 16:08:34	22.68	26280
261 17:53:29	-3.68	26281
261 19:38:25	-30.04	26282
261 21:23:20	-56.39	26283
261 23:08:16	-82.75	26284

262 00:15:33	137.68	36060
262 02:00:54	111.22	36061
262 03:46:15	84.76	36062
262 05:31:36	58.30	36063
262 07:16:57	31.84	36064
262 09:02:18	5.37	36065
262 10:47:38	-21.09	36066
262 12:32:59	-47.55	36067
262 14:18:20	-74.01	36068
262 16:03:41	-100.48	36069
262 17:49:02	-126.94	36070
262 19:34:22	-153.40	36071
262 21:19:43	-179.87	36072
262 23:05:04	153.67	36073

262 00:20:13	-150.35	32544
262 02:05:05	-176.69	32545
262 03:49:57	156.97	32546
262 05:34:49	130.62	32547
262 07:19:42	104.28	32548
262 09:04:34	77.94	32549
262 10:49:26	51.59	32550
262 12:34:18	25.25	32551
262 14:19:11	-1.09	32552
262 16:04:03	-27.44	32553
262 17:48:55	-53.78	32554
262 19:33:47	-80.13	32555
262 21:18:40	-106.47	32556
262 23:03:32	-132.81	32557

262 00:53:11	-109.11	26285
262 02:38:06	-135.46	26286
262 04:23:02	-161.82	26287
262 06:07:57	171.82	26288
262 07:52:53	145.47	26289
262 09:37:48	119.11	26290
262 11:22:43	92.75	26291
262 13:07:39	66.40	26292
262 14:52:34	40.04	26293
262 16:37:30	13.69	26294
262 18:22:25	-12.67	26295
262 20:07:20	-39.03	26296
262 21:32:16	-65.38	26297
262 23:37:11	-91.74	26298

263 00:50:25	127.21	36074
263 02:35:46	100.75	36075
263 04:21:06	74.28	36076
263 06:06:27	47.82	36077
263 07:51:48	21.36	36078
263 09:37:09	-5.10	36079
263 11:22:30	-31.56	36080
263 13:07:51	-58.03	36081
263 14:53:11	-84.49	36082
263 16:38:32	-110.95	36083
263 18:23:53	-137.41	36084
263 20:09:14	-163.88	36085
263 21:54:35	169.66	36086
263 23:39:55	143.20	36087

263 00:48:24	-159.15	32558
263 02:33:16	174.50	32559
263 04:18:09	148.16	32560
263 06:03:01	121.82	32561
263 07:47:53	95.47	32562
263 09:32:45	69.13	32563
263 11:17:38	42.79	32564
263 13:02:30	16.44	32565
263 14:47:22	-9.90	32566
263 16:32:14	-36.23	32567
263 18:17:07	-62.59	32568
263 20:01:59	-88.93	32569
263 21:46:51	-115.27	32570
263 23:31:43	-141.62	32571

263 01:22:07	-118.09	26299
263 03:07:02	-144.45	26300
263 04:51:57	-170.81	26301
263 06:36:53	162.84	26302
263 08:21:48	136.48	26303
263 10:06:44	110.12	26304
263 11:51:39	83.77	26305
263 13:36:34	57.41	26306
263 15:21:30	31.05	26307
263 17:06:25	4.70	26308
263 18:51:21	-21.66	26309
263 20:36:16	-48.02	26310
263 22:21:11	-74.37	26311

264 01:23:16	116.74	36088
264 03:10:37	90.27	36089
264 04:55:58	63.81	36090
264 06:41:19	37.35	36091
264 08:26:39	10.89	36092
264 10:12:00	-15.58	36093
264 11:57:21	-42.04	36094
264 13:42:42	-68.50	36095
264 15:28:03	-94.96	36096
264 17:13:24	-121.42	36097
264 18:58:44	-147.89	36098
264 20:44:05	-174.35	36099
264 22:29:26	159.19	36100

264 01:16:36	-167.96	32572
264 03:01:28	165.70	32573
264 04:46:20	139.35	32574
264 06:31:12	113.01	32575
264 08:16:05	86.67	32576
264 10:00:57	60.32	32577
264 11:45:49	33.98	32578
264 13:30:41	7.63	32579
264 15:15:34	-18.71	32580
264 17:00:26	-45.05	32581
264 18:45:18	-71.39	32582
264 20:30:11	-97.74	32583
264 22:15:03	-124.08	32584
264 23:59:55	-150.42	32585

264 00:06:07	-100.73	26312
264 01:51:02	-127.09	26313
264 03:35:58	-153.44	26314
264 05:20:53	-179.80	26315
264 07:05:48	153.85	26316
264 08:50:44	127.49	26317
264 10:35:39	101.13	26318
264 12:29:35	74.78	26319
264 14:05:30	48.42	26320
264 15:50:25	22.06	26321
264 17:35:21	-4.29	26322
264 19:20:16	-30.65	26323
264 21:05:12	-57.00	26324
264 22:50:07	-83.36	26325

SATELLITE S2**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

261 01:12:53	-125.67	24557
261 02:34:55	-151.17	24558
261 04:36:58	-176.68	24559
261 06:19:01	-157.81	24560
261 08:01:04	132.30	24561
261 09:43:07	106.79	24562
261 11:25:10	81.28	24563
261 13:07:13	55.77	24564
261 14:49:16	30.26	24565
261 16:31:19	4.75	24566
261 18:13:22	-20.76	24567
261 19:35:25	-46.28	24568
261 21:37:28	-71.79	24569
261 23:19:31	-97.30	24570

SATELLITE S3**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

261 01:26:07	-88.70	15589
261 03:07:23	-114.01	15590
261 04:48:39	-139.33	15591
261 06:29:55	-164.65	15592
261 08:11:11	170.03	15593
261 09:52:27	144.71	15594
261 11:33:42	119.41	15595
261 13:14:58	94.09	15596
261 14:56:14	68.77	15597
261 16:37:30	43.45	15598
261 18:18:46	18.14	15599
261 20:00:02	-7.18	15600
261 21:41:18	-32.50	15601
261 23:22:34	-57.82	15602

SATELLITE S4**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

261 01:03:33	-168.54	5057
261 02:46:00	165.93	5058
261 04:28:08	140.40	5059
261 06:10:15	114.87	5060
261 07:52:22	89.35	5061
261 09:34:30	63.81	5062
261 11:16:37	38.28	5063
261 12:58:45	12.74	5064
261 14:40:52	-12.78	5065
261 16:22:59	-38.30	5066
261 18:05:07	-63.84	5067
261 19:47:14	-89.37	5068
261 21:29:22	-114.91	5069
261 23:11:29	-140.43	5070

262 01:01:34	-122.81	24571
262 02:43:37	-148.32	24572
262 04:25:40	-173.83	24573
262 06:07:43	160.66	24574
262 07:49:46	135.15	24575
262 09:31:49	109.64	24576
262 11:13:52	84.13	24577
262 12:55:55	58.62	24578
262 14:37:58	33.11	24579
262 16:20:01	7.60	24580
262 18:02:04	-17.91	24581
262 19:44:07	-43.42	24582
262 21:26:10	-68.93	24583
262 23:08:13	-94.44	24584

262 01:03:49	-83.12	15603
262 02:45:05	-108.44	15604
262 04:26:21	-133.76	15605
262 06:07:37	-159.08	15606
262 07:48:53	175.60	15607
262 09:30:09	150.29	15608
262 11:11:25	124.97	15609
262 12:52:41	99.65	15610
262 14:33:56	74.35	15611
262 16:15:12	49.03	15612
262 17:56:28	23.71	15613
262 19:37:44	-1.61	15614
262 21:19:00	-26.93	15615
262 23:00:16	-52.25	15616

262 00:53:36	-165.96	5071
262 02:35:44	168.51	5072
262 04:17:51	142.98	5073
262 05:59:59	117.44	5074
262 07:42:06	91.92	5075
262 09:24:13	66.39	5076
262 11:06:21	40.85	5077
262 12:48:28	15.33	5078
262 14:30:36	-10.21	5079
262 16:12:43	-35.73	5080
262 17:54:51	-61.27	5081
262 19:36:58	-86.80	5082
262 21:19:05	-112.32	5083
262 23:01:13	-137.86	5084

263 00:30:16	-119.95	24585
263 02:32:19	-145.46	24586
263 04:14:22	-170.97	24587
263 05:36:25	163.51	24588
263 07:38:28	138.00	24589
263 09:20:31	112.49	24590
263 11:02:33	87.00	24591
263 12:44:36	61.49	24592
263 14:26:39	35.98	24593
263 16:08:42	10.46	24594
263 17:50:45	-15.05	24595
263 19:32:48	-40.56	24596
263 21:14:51	-66.07	24597
263 22:56:54	-91.58	24598

263 00:41:32	-77.56	15617
263 02:22:48	-102.88	15618
263 04:04:03	-128.19	15619
263 05:45:19	-153.50	15620
263 07:26:35	-178.82	15621
263 09:07:51	155.86	15622
263 10:49:07	130.54	15623
263 12:30:23	105.22	15624
263 14:11:39	79.90	15625
263 15:52:55	54.59	15626
263 17:34:10	29.28	15627
263 19:15:26	3.96	15628
263 20:56:42	-21.35	15629
263 22:37:58	-46.67	15630

263 00:43:20	-163.38	5083
263 02:23:28	171.08	5086
263 04:07:35	145.55	5087
263 05:49:42	120.03	5088
263 07:31:50	94.49	5089
263 09:13:57	68.96	5090
263 10:56:05	43.43	5091
263 12:38:12	17.90	5092
263 14:20:19	-7.62	5093
263 16:02:27	-33.16	5094
263 17:44:34	-58.69	5095
263 19:26:42	-84.22	5096
263 21:08:49	-109.75	5097
263 22:50:56	-135.27	5098

264 00:38:57	-117.09	24599
264 02:21:00	-142.60	24600
264 04:03:03	-168.11	24601
264 05:45:06	166.38	24602
264 07:27:09	140.87	24603
264 09:09:12	115.36	24604
264 10:51:15	89.85	24605
264 12:33:18	64.34	24606
264 14:15:21	38.83	24607
264 15:57:24	13.32	24608
264 17:39:27	-12.19	24609
264 19:21:30	-37.70	24610
264 21:03:33	-63.21	24611
264 22:45:36	-88.72	24612

264 00:19:14	-71.99	15631
264 02:00:30	-97.31	15632
264 03:41:46	-122.63	15633
264 05:23:02	-147.94	15634
264 07:04:17	-173.25	15635
264 08:45:33	161.43	15636
264 10:26:49	136.11	15637
264 12:08:05	110.80	15638
264 13:49:21	85.48	15639
264 15:30:37	60.16	15640
264 17:11:53	34.84	15641
264 18:53:09	9.52	15642
264 20:34:24	-15.78	15643
264 22:15:40	-41.10	15644
264 23:56:56	-66.42	15645

264 00:33:04	-160.81	5099
264 02:15:11	173.66	5100
264 03:57:19	148.12	5101
264 05:39:26	122.60	5102
264 07:21:33	97.07	5103
264 09:03:41	71.54	5104
264 10:45:48	46.01	5105
264 12:27:56	20.47	5106
264 14:10:03	-5.05	5107
264 15:52:11	-30.59	5108
264 17:34:18	-56.11	5109
264 19:16:25	-81.64	5110
264 20:58:33	-107.18	5111
264 22:40:40	-132.70	5112

SATELLITE C1
Ascending Node Predictions

Predicting for 183 days

 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

265	00:14:47	132.72	36101
265	02:00:08	106.26	36102
265	03:45:28	79.80	36103
265	05:30:49	53.34	36104
265	07:16:10	26.87	36105
265	09:01:31	-41	36106
265	10:46:52	-26.05	36107
265	12:32:12	-52.51	36108
265	14:17:33	-78.98	36109
265	16:02:54	-105.44	36110
265	17:48:15	-131.90	36111
265	19:33:36	-158.36	36112
265	21:18:57	-175.18	36113
265	23:04:17	-148.71	36114

SATELLITE C2
Ascending Node Predictions

Predicting for 183 days

 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

265	01:44:47	-176.77	32586
265	03:29:40	156.89	32587
265	05:14:32	130.55	32588
265	06:59:24	104.20	32589
265	08:44:16	77.86	32590
265	10:29:09	51.52	32591
265	12:14:01	25.17	32592
265	13:58:53	-1.17	32593
265	15:43:45	-27.51	32594
265	17:28:38	-53.86	32595
265	19:13:30	-80.20	32596
265	20:58:22	-106.54	32597
265	22:43:14	-132.89	32598

SATELLITE C3
Ascending Node Predictions

Predicting for 183 days

 TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

265	00:35:02	-109.72	26326
265	02:19:58	-136.07	26327
265	04:04:53	-162.43	26328
265	05:49:49	171.21	26329
265	07:34:44	144.86	26330
265	09:19:39	118.50	26331
265	11:04:35	92.14	26332
265	12:49:30	65.79	26333
265	14:34:26	39.43	26334
265	16:19:21	13.08	26335
265	18:04:16	-13.28	26336
265	19:49:12	-39.64	26337
265	21:34:07	-65.99	26338
265	23:19:03	-92.35	26339

266	00:49:38	122.25	36115
266	02:34:59	95.79	36116
266	04:20:20	69.33	36117
266	06:05:41	42.86	36118
266	07:51:01	16.40	36119
266	09:36:22	-10.06	36120
266	11:21:43	-36.53	36121
266	13:07:04	-62.99	36122
266	14:52:25	-89.45	36123
266	16:37:46	-115.91	36124
266	18:23:06	-142.38	36125
266	20:08:27	-168.84	36126
266	21:53:48	-184.70	36127
266	23:39:09	-138.24	36128

266	00:28:07	-159.23	32599
266	02:12:59	174.43	32600
266	03:57:51	148.08	32601
266	05:42:43	121.74	32602
266	07:27:36	95.40	32603
266	09:12:28	69.05	32604
266	10:57:20	42.71	32605
266	12:42:12	16.37	32606
266	14:27:05	-9.98	32607
266	16:11:57	-36.32	32608
266	17:56:49	-62.66	32609
266	19:41:41	-89.01	32610
266	21:26:34	-115.35	32611
266	23:11:26	-141.69	32612

266	01:03:58	-118.71	26340
266	02:48:53	-145.06	26341
266	04:33:49	-171.42	26342
266	06:18:44	162.22	26343
266	08:03:40	135.87	26344
266	09:48:35	109.31	26345
266	11:33:30	83.15	26346
266	13:18:26	56.80	26347
266	15:03:21	30.44	26348
266	16:48:17	4.09	26349
266	18:33:12	-22.27	26350
266	20:18:07	-48.63	26351
266	22:03:03	-74.98	26352
266	23:47:58	-101.34	26353

267	01:24:30	111.78	36129
267	03:09:50	85.31	36130
267	04:55:11	58.85	36131
267	06:40:32	32.39	36132
267	08:25:53	5.93	36133
267	10:11:14	-20.54	36134
267	11:56:34	-47.00	36135
267	13:41:55	-73.46	36136
267	15:27:16	-99.92	36137
267	17:12:37	-126.39	36138
267	18:57:58	-152.85	36139
267	20:43:19	-179.31	36140
267	22:28:39	154.23	36141

267	00:56:18	-168.04	32613
267	02:41:10	165.62	32614
267	04:26:03	139.28	32615
267	06:10:55	112.93	32616
267	07:55:47	86.59	32617
267	09:40:39	60.25	32618
267	11:25:32	33.90	32619
267	13:10:24	7.56	32620
267	14:55:16	-18.78	32621
267	16:40:08	-45.13	32622
267	18:25:01	-71.47	32623
267	20:09:53	-97.81	32624
267	21:54:45	-124.16	32625
267	23:39:37	-150.50	32626

267	01:32:54	-127.69	26354
267	03:17:49	-154.05	26355
267	05:02:44	179.59	26356
267	06:47:40	153.24	26357
267	08:32:35	126.88	26358
267	10:17:31	100.52	26359
267	12:02:26	74.17	26360
267	13:47:21	47.81	26361
267	15:32:17	21.45	26362
267	17:17:12	-4.90	26363
267	19:02:08	-31.26	26364
267	20:47:03	-57.62	26365
267	22:31:58	-83.97	26366

268	00:14:00	127.76	36142
268	01:59:21	101.30	36143
268	03:44:42	74.84	36144
268	05:30:03	48.38	36145
268	07:15:23	21.91	36146
268	09:00:44	-4.55	36147
268	10:46:05	-31.01	36148
268	12:31:26	-57.47	36149
268	14:16:47	-83.94	36150
268	16:02:07	-110.40	36151
268	17:47:28	-136.86	36152
268	19:32:49	-163.32	36153
268	21:18:10	170.21	36154
268	23:03:31	143.75	36155

268	01:24:30	-176.84	32627
268	03:09:22	156.81	32628
268	04:54:14	130.47	32629
268	06:39:06	104.13	32630
268	08:23:59	77.79	32631
268	10:08:51	51.44	32632
268	11:53:43	25.10	32633
268	13:38:35	-1.25	32634
268	15:23:28	-27.59	32635
268	17:08:20	-53.93	32636
268	18:53:12	-80.28	32637
268	20:38:04	-106.62	32638
268	22:22:57	-132.96	32639

268	00:16:34	-110.33	26367
268	02:01:49	-136.69	26368
268	03:46:45	-163.04	26369
268	05:31:40	170.60	26370
268	07:16:35	144.24	26371
268	09:01:31	117.89	26372
268	10:46:26	91.53	26373
268	12:31:22	65.18	26374
268	14:16:17	38.82	26375
268	16:01:12	12.46	26376
268	17:46:08	-13.89	26377
268	19:31:03	-40.25	26378
268	21:15:39	-66.60	26379
268	23:00:54	-92.96	26380

SATELLITE S2

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

265 00:27:39	-114.23	24613
265 02:09:42	-139.73	24614
265 03:31:45	-165.26	24615
265 05:33:48	169.23	24616
265 07:15:51	143.72	24617
265 08:57:54	118.21	24618
265 10:39:57	92.70	24619
265 12:22:00	67.19	24620
265 14:04:03	41.68	24621
265 15:46:06	16.17	24622
265 17:28:08	-9.33	24623
265 19:10:11	-34.84	24624
265 20:52:14	-60.35	24625
265 22:34:17	-85.86	24626

SATELLITE S3

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

265 01:38:12	-91.74	15646
265 03:19:28	-117.05	15647
265 05:00:44	-142.37	15648
265 06:42:00	-167.69	15649
265 08:23:16	166.99	15650
265 10:04:31	141.69	15651
265 11:45:47	116.37	15652
265 13:27:03	91.05	15653
265 15:08:19	65.73	15654
265 16:49:35	40.41	15655
265 18:30:51	15.10	15656
265 20:12:07	-10.22	15657
265 21:53:23	-35.54	15658
265 23:34:38	-60.85	15659

SATELLITE S4

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

265 00:22:48	-158.24	5113
265 02:04:55	176.23	5114
265 03:47:02	150.71	5115
265 05:29:10	125.17	5116
265 07:11:17	99.65	5117
265 08:53:25	74.11	5118
265 10:35:32	48.58	5119
265 12:17:39	23.06	5120
265 13:59:47	-2.48	5121
265 15:41:54	-28.00	5122
265 17:24:02	-53.54	5123
265 19:06:09	-79.07	5124
265 20:48:16	-104.59	5125
265 22:30:24	-130.13	5126

266 00:16:20	-111.37	24627
266 01:58:23	-136.88	24628
266 03:40:26	-162.39	24629
266 05:22:29	172.10	24630
266 07:04:32	146.59	24631
266 08:46:35	121.08	24632
266 10:28:38	95.57	24633
266 12:10:41	70.06	24634
266 13:52:44	44.55	24635
266 15:34:47	19.04	24636
266 17:16:50	-6.47	24637
266 18:58:53	-31.98	24638
266 20:40:56	-57.49	24639
266 22:22:59	-83.01	24640

266 01:15:34	-86.16	15660
266 02:57:10	-111.48	15661
266 04:38:26	-136.80	15662
266 06:19:42	-162.12	15663
266 08:00:58	172.56	15664
266 09:42:14	147.25	15665
266 11:23:30	121.93	15666
266 13:04:45	96.62	15667
266 14:46:01	71.31	15668
266 16:27:17	45.99	15669
266 18:08:33	20.67	15670
266 19:49:49	-4.65	15671
266 21:31:05	-29.97	15672
266 23:12:21	-55.29	15673

266 00:12:31	-155.66	5127
266 01:54:39	178.81	5128
266 03:36:46	153.28	5129
266 05:18:53	127.76	5130
266 07:01:01	102.22	5131
266 08:43:08	76.69	5132
266 10:25:16	51.16	5133
266 12:07:23	25.63	5134
266 13:49:31	0.09	5135
266 15:31:38	-25.43	5136
266 17:13:45	-50.96	5137
266 18:55:53	-76.50	5138
266 20:38:00	-102.02	5139
266 22:20:08	-127.56	5140

267 00:05:02	-108.52	24641
267 01:47:05	-134.03	24642
267 03:29:08	-159.54	24643
267 05:11:11	174.95	24644
267 06:53:14	149.44	24645
267 08:35:17	123.93	24646
267 10:17:20	98.42	24647
267 11:59:23	72.91	24648
267 13:41:26	47.40	24649
267 15:23:29	21.89	24650
267 17:05:32	-3.62	24651
267 18:47:35	-29.13	24652
267 20:29:38	-54.64	24653
267 22:11:41	-80.15	24654
267 23:53:43	-105.65	24655

267 00:53:37	-80.60	15674
267 02:34:52	-105.91	15675
267 04:16:08	-131.23	15676
267 05:57:24	-156.54	15677
267 07:38:40	178.14	15678
267 09:19:56	152.82	15679
267 11:01:12	127.50	15680
267 12:42:28	102.18	15681
267 14:23:44	76.86	15682
267 16:04:59	51.56	15683
267 17:46:15	26.24	15684
267 19:27:31	.92	15685
267 21:08:47	-24.39	15686
267 22:50:03	-49.71	15687

267 00:02:15	-153.08	5141
267 01:44:22	-178.61	5142
267 03:26:30	155.85	5143
267 05:08:37	130.33	5144
267 06:50:45	104.79	5145
267 08:32:52	79.27	5146
267 10:14:59	53.74	5147
267 11:57:07	28.20	5148
267 13:39:14	2.68	5149
267 15:21:22	-22.86	5150
267 17:03:29	-48.39	5151
267 18:45:36	-73.91	5152
267 20:27:44	-99.45	5153
267 22:09:51	-124.97	5154
267 23:51:59	-150.51	5155

268 01:35:46	-131.16	24656
268 03:17:49	-156.67	24657
268 04:59:52	177.82	24658
268 06:41:55	152.31	24659
268 08:23:58	126.80	24660
268 10:06:01	101.29	24661
268 11:48:04	75.78	24662
268 13:30:07	50.27	24663
268 15:12:10	24.76	24664
268 16:54:13	-.76	24665
268 18:36:16	-26.27	24666
268 20:18:19	-51.78	24667
268 22:00:22	-77.29	24668
268 23:42:25	-102.80	24669

268 00:31:19	-75.03	15688
268 02:12:35	-100.35	15689
268 03:53:51	-125.67	15690
268 05:35:06	-150.97	15691
268 07:16:22	-176.29	15692
268 08:57:38	158.39	15693
268 10:38:54	133.07	15694
268 12:20:10	107.76	15695
268 14:01:26	82.44	15696
268 15:42:42	57.12	15697
268 17:23:58	31.80	15698
268 19:05:13	6.50	15699
268 20:46:29	-18.82	15700
268 22:27:45	-44.14	15701

268 01:34:06	-176.04	5156
268 03:16:13	158.44	5157
268 04:58:21	132.90	5158
268 06:40:28	107.38	5159
268 08:22:36	81.84	5160
268 10:04:43	56.31	5161
268 11:46:51	30.77	5162
268 13:28:58	5.25	5163
268 15:11:05	-20.28	5164
268 16:53:13	-45.81	5165
268 18:35:20	-71.34	5166
268 20:17:28	-96.88	5167
268 21:59:35	-122.40	5168
268 23:41:42	-147.93	5169

SATELLITE C1**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

269 00:48:52	117.29	36156
269 02:34:12	90.83	36157
269 04:19:33	64.36	36158
269 06:04:54	37.90	36159
269 07:50:15	11.44	36160
269 09:35:36	-15.02	36161
269 11:20:56	-41.49	36162
269 13:06:17	-67.95	36163
269 14:51:38	-94.41	36164
269 16:36:59	-120.87	36165
269 18:22:20	-147.33	36166
269 20:07:40	-173.80	36167
269 21:53:01	-159.74	36168
269 23:38:22	133.28	36169

SATELLITE C2**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

269 00:07:49	-159.31	32640
269 01:52:41	174.35	32641
269 03:37:34	148.01	32642
269 05:22:26	121.67	32643
269 07:07:18	95.32	32644
269 08:52:10	68.98	32645
269 10:37:03	42.64	32646
269 12:21:55	16.29	32647
269 14:06:47	-10.05	32648
269 15:51:39	-36.40	32649
269 17:36:32	-62.74	32650
269 19:21:24	-89.08	32651
269 21:06:16	-115.42	32652
269 22:51:08	-141.77	32653

SATELLITE C3**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

269 00:45:49	-119.32	26381
269 02:30:45	-145.67	26382
269 04:15:40	-172.03	26383
269 06:00:36	161.61	26384
269 07:45:31	135.26	26385
269 09:30:26	108.90	26386
269 11:15:22	82.54	26387
269 13:00:17	56.19	26388
269 14:45:13	29.83	26389
269 16:30:08	3.47	26390
269 18:15:03	-22.88	26391
269 19:59:59	-49.24	26392
269 21:44:54	-75.60	26393
269 23:29:50	-101.95	26394

270 01:23:43	106.82	36170
270 03:09:04	80.35	36171
270 04:54:25	53.89	36172
270 06:39:45	27.43	36173
270 08:25:06	.96	36174
270 10:10:27	-25.50	36175
270 11:55:48	-51.96	36176
270 13:41:09	-78.42	36177
270 15:26:29	-104.89	36178
270 17:11:50	-131.35	36179
270 18:57:11	-157.81	36180
270 20:42:32	175.73	36181
270 22:27:53	149.27	36182

270 00:36:01	-168.11	32654
270 02:20:53	165.55	32655
270 04:05:45	139.20	32656
270 05:50:37	112.86	32657
270 07:35:30	86.52	32658
270 09:20:22	60.17	32659
270 11:05:14	33.83	32660
270 12:50:06	7.48	32661
270 14:34:59	-18.86	32662
270 16:19:51	-45.20	32663
270 18:04:43	-71.54	32664
270 19:49:35	-97.89	32665
270 21:34:28	-124.23	32666
270 23:19:20	-150.57	32667

270 01:14:45	-128.31	26395
270 02:59:40	-154.67	26396
270 04:44:36	178.98	26397
270 06:29:31	152.62	26398
270 08:14:27	126.27	26399
270 09:59:22	99.91	26400
270 11:44:17	73.55	26401
270 13:29:13	47.20	26402
270 15:14:08	20.84	26403
270 16:59:04	-5.51	26404
270 18:43:59	-31.87	26405
270 20:28:54	-58.23	26406
270 22:13:50	-84.58	26407
270 23:58:45	-110.94	26408

271 00:13:13	122.80	36183
271 01:58:34	96.34	36184
271 03:43:55	69.88	36185
271 05:29:16	43.42	36186
271 07:14:37	16.95	36187
271 08:59:58	-9.51	36188
271 10:45:18	-35.97	36189
271 12:30:39	-62.43	36190
271 14:16:00	-88.90	36191
271 16:01:21	-115.36	36192
271 17:46:42	-141.82	36193
271 19:32:02	-168.29	36194
271 21:17:23	165.23	36195
271 23:02:44	138.79	36196

271 01:04:12	-176.92	32668
271 02:49:04	156.74	32669
271 04:33:57	130.40	32670
271 06:18:49	104.05	32671
271 08:03:41	77.71	32672
271 09:48:33	51.37	32673
271 11:33:26	25.02	32674
271 13:18:18	-1.32	32675
271 15:03:10	-27.66	32676
271 16:48:02	-54.01	32677
271 18:32:55	-80.35	32678
271 20:17:47	-106.69	32679
271 22:02:39	-133.04	32680
271 23:47:31	-159.38	32681

271 01:43:41	-137.30	26409
271 03:28:36	-163.65	26410
271 05:13:31	169.99	26411
271 06:58:27	143.63	26412
271 08:43:22	117.28	26413
271 10:28:18	90.92	26414
271 12:13:13	64.56	26415
271 13:58:09	38.21	26416
271 15:43:04	11.85	26417
271 17:27:59	-14.50	26418
271 19:12:55	-40.86	26419
271 20:57:50	-67.22	26420
271 22:42:46	-93.57	26421

272 00:48:05	112.33	36197
272 02:33:26	85.87	36198
272 04:18:47	59.41	36199
272 06:04:07	32.94	36200
272 07:49:28	6.48	36201
272 09:34:49	-19.98	36202
272 11:20:10	-46.45	36203
272 13:05:31	-72.91	36204
272 14:50:51	-99.37	36205
272 16:36:12	-125.83	36206
272 18:21:33	-152.30	36207
272 20:06:54	-178.76	36208
272 21:52:15	154.78	36209
272 23:37:35	128.32	36210

272 01:32:24	174.28	32682
272 03:17:16	147.93	32683
272 05:02:08	121.59	32684
272 06:47:00	95.25	32685
272 08:31:53	68.90	32686
272 10:16:45	42.56	32687
272 12:01:37	16.22	32688
272 13:46:29	-10.13	32689
272 15:31:22	-36.47	32690
272 17:16:14	-62.81	32691
272 19:01:06	-89.16	32692
272 20:45:58	-115.50	32693
272 22:30:51	-141.84	32694

272 00:27:41	-119.93	26422
272 02:12:36	-146.29	26423
272 03:57:32	-172.64	26424
272 05:42:27	161.00	26425
272 07:27:23	134.65	26426
272 09:12:18	108.29	26427
272 10:57:13	81.93	26428
272 12:42:09	55.58	26429
272 14:27:04	29.22	26430
272 16:12:00	2.86	26431
272 17:56:55	-23.49	26432
272 19:41:50	-49.85	26433
272 21:26:46	-76.21	26434
272 23:11:41	-102.56	26435

SATELLITE S2							SATELLITE S3							SATELLITE S4									
Ascending Node Predictions							Ascending Node Predictions							Ascending Node Predictions									
Predicting for 183 days							Predicting for 183 days							Predicting for 183 days									
TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT			
day	hr	mn	sc	deg	dg	day	hr	mn	sc	deg	dg	day	hr	mn	sc	deg	dg	day	hr	mn	sc		
269 01:24:28	-128.31	24670	269 00:09:01	-69.46	15702	269 01:23:50	-173.46	5170	269 03:06:31	-153.82	24671	269 03:05:57	161.01	5171	269 04:48:34	-179.33	24672	269 04:48:05	135.47	5172			
269 06:30:37	155.16	24673	269 05:12:49	-145.41	15705	269 06:30:12	109.95	5173	269 08:12:40	129.65	24674	269 08:12:19	84.42	5174	269 09:54:43	104.14	24675	269 09:54:27	58.88	5175			
269 11:36:46	78.63	24676	269 10:16:36	138.65	15708	269 11:36:34	33.36	5176	269 13:18:49	53.12	24677	269 13:18:42	7.82	5177	269 15:00:52	27.61	24678	269 15:00:49	-17.70	5178			
269 16:42:55	2.10	24679	269 15:20:24	62.69	15711	269 16:42:56	-43.23	5179	269 18:24:58	-23.41	24680	269 17:01:40	37.37	5180	269 20:07:01	-48.92	24681	269 20:07:11	-94.29	5181			
269 21:49:04	-74.43	24682	269 20:24:12	-13.26	15714	269 21:49:19	-119.83	5182	269 23:31:07	-99.94	24683	269 22:05:27	-38.57	5183				269 23:31:26	-145.35	5183			
			269 23:46:43	-63.88	15716																		
270 01:13:10	-125.46	24684	270 01:27:59	-89.20	15717	270 01:13:34	-170.89	5184	270 02:55:13	-150.97	24685	270 02:55:41	163.58	5185	270 04:37:15	-176.46	24686	270 04:37:48	138.06	5186			
270 06:19:18	158.03	24687	270 04:50:31	-139.84	15719	270 06:19:56	112.52	5187	270 08:01:21	132.52	24688	270 08:02:03	87.00	5188	270 09:43:24	107.01	24689	270 09:44:11	61.46	5189			
270 11:25:27	81.50	24690	270 11:35:34	118.90	15723	270 11:26:18	35.93	5190	270 13:07:30	55.98	24691	270 13:16:50	93.58	15724	270 14:49:33	30.47	24692	270 14:50:33	-15.13	5192			
270 16:31:36	4.96	24693	270 14:58:06	68.27	15725	270 16:32:40	-40.66	5193	270 18:13:39	-20.55	24694	270 18:20:38	17.63	15727	270 19:55:42	-46.06	24695	270 19:56:55	-91.72	5195			
270 21:37:45	-71.57	24696	270 20:01:54	-7.69	15728	270 21:39:02	-117.24	5196	270 23:19:48	-97.08	24697	270 21:43:10	-33.01	15729				270 23:21:10	-142.78	5197			
			270 23:24:26	-58.32	15730																		
271 01:01:51	-122.59	24698	271 01:05:41	-83.63	15731	271 01:03:17	-168.31	5198	271 02:43:54	-148.10	24699	271 02:45:25	166.16	5199	271 04:25:57	-173.61	24700	271 04:27:32	140.63	5200			
271 06:08:00	160.88	24701	271 04:29:13	-134.27	15733	271 06:09:39	115.11	5201	271 07:50:03	135.37	24702	271 07:51:47	89.57	5202	271 09:32:06	109.86	24703	271 09:33:54	64.04	5203			
271 11:14:09	84.35	24704	271 11:13:17	124.46	15737	271 11:16:02	38.50	5204	271 12:36:12	58.84	24705	271 12:58:09	12.98	5205	271 14:38:15	33.33	24706	271 14:40:17	-12.56	5206			
271 16:20:18	7.82	24707	271 16:17:04	48.52	15740	271 16:22:24	-38.08	5207	271 18:02:21	-17.69	24708	271 17:58:20	23.20	15741	271 18:44:24	-43.20	24709	271 19:46:39	-89.15	5209			
271 21:26:27	-68.72	24710	271 21:20:52	-27.43	15743	271 21:28:46	-114.67	5210	271 23:08:30	-94.23	24711	271 23:02:08	-52.75	15744				271 23:10:54	-140.21	5211			
272 00:50:33	-119.74	24712	272 00:43:24	-78.07	15745	272 00:53:01	-165.73	5212	272 02:32:36	-145.25	24713	272 02:35:08	168.74	5213	272 04:14:39	-170.76	24714	272 04:17:16	143.20	5214			
272 05:56:42	163.73	24715	272 04:05:55	-128.69	15747	272 05:59:23	117.68	5215	272 07:38:45	138.22	24716	272 07:28:27	-179.33	15749	272 09:23:38	66.61	5217	272 11:02:50	87.21	24718	272 10:30:39	130.03	15751
272 12:44:53	61.70	24719	272 12:32:15	104.72	15752	272 11:05:45	41.09	5218	272 14:26:56	36.19	24720	272 14:13:31	79.40	15753	272 14:30:00	-9.97	5220	272 16:08:39	10.68	24721	272 15:54:47	54.08	15754
272 17:51:02	-14.83	24722	272 17:36:02	28.78	15755	272 17:54:15	-61.04	5222	272 19:33:05	-40.34	24723	272 19:17:18	3.46	15756	272 19:36:22	-86.56	5223	272 21:15:08	-65.85	24724	272 20:58:34	-21.86	15757
272 22:57:11	-91.36	24725	272 22:39:50	-47.18	15758	272 21:18:30	-112.10	5224				272 23:00:37	-137.62	5225									

West longitude is negative (-)

SATELLITE C1				SATELLITE C2				SATELLITE C3			
Ascending Node Predictions				Ascending Node Predictions				Ascending Node Predictions			
Predicting for 183 days				Predicting for 183 days				Predicting for 183 days			
TIME (GMT)	E LONG	ORBIT		TIME (GMT)	E LONG	ORBIT		TIME (GMT)	E LONG	ORBIT	
day hr mn sc	deg dg			day hr mn sc	deg dg			day hr mn sc	deg dg		
273 01:22:56	101.85	36211		273 00:15:43	-168.19	32695		273 00:36:37	-128.92	26436	
273 03:08:17	75.39	36212		273 02:00:35	165.47	32696		273 02:41:32	-155.28	26437	
273 04:53:38	48.93	36213		273 03:45:27	139.13	32697		273 04:26:27	178.37	26438	
273 06:38:59	22.47	36214		273 05:30:20	112.79	32698		273 06:11:23	152.01	26439	
273 08:24:20	-3.99	36215		273 07:15:12	86.94	32699		273 07:56:18	125.66	26440	
273 10:09:40	-30.46	36216		273 09:00:04	60.10	32700		273 09:41:14	99.30	26441	
273 11:55:01	-56.92	36217		273 10:44:56	33.75	32701		273 11:26:09	72.94	26442	
273 13:40:22	-83.38	36218		273 12:29:49	7.41	32702		273 13:11:04	46.59	26443	
273 15:25:43	-109.84	36219		273 14:14:41	-18.93	32703		273 14:56:00	20.23	26444	
273 17:11:04	-136.31	36220		273 15:59:33	-45.28	32704		273 16:40:55	-6.13	26445	
273 18:56:24	-162.77	36221		273 17:44:25	-71.62	32705		273 18:25:51	-32.48	26446	
273 20:41:45	170.77	36222		273 19:29:18	-97.96	32706		273 20:10:46	-58.84	26447	
273 22:27:06	144.31	36223		273 21:14:10	-124.31	32707		273 21:55:41	-85.20	26448	
				273 22:59:02	-150.65	32708		273 23:40:37	-111.55	26449	
274 00:12:27	117.84	36224		274 00:43:54	-176.99	32709		274 01:25:32	-137.91	26450	
274 01:57:48	91.38	36225		274 02:28:47	156.67	32710		274 03:10:28	-164.26	26451	
274 03:43:08	64.92	36226		274 04:13:39	130.32	32711		274 04:55:23	169.38	26452	
274 05:28:29	38.45	36227		274 05:58:31	103.98	32712		274 06:40:18	143.02	26453	
274 07:13:50	11.99	36228		274 07:43:23	77.63	32713		274 08:25:14	116.67	26454	
274 08:59:11	-14.47	36229		274 09:28:16	51.29	32714		274 10:10:09	90.31	26455	
274 10:44:32	-40.93	36230		274 11:13:08	24.95	32715		274 11:55:05	63.93	26456	
274 12:29:52	-67.40	36231		274 12:58:00	-1.40	32716		274 13:40:00	37.60	26457	
274 14:15:13	-93.86	36232		274 14:42:52	-27.74	32717		274 15:24:55	11.24	26458	
274 16:00:34	-120.32	36233		274 16:27:45	-54.08	32718		274 17:09:51	-15.12	26459	
274 17:45:55	-146.78	36234		274 18:12:37	-80.42	32719		274 18:54:46	-41.47	26460	
274 19:31:16	-173.24	36235		274 19:57:29	-106.77	32720		274 20:39:42	-67.83	26461	
274 21:16:37	160.29	36236		274 21:42:21	-133.11	32721		274 22:24:37	-94.19	26462	
274 23:01:57	133.83	36237		274 23:27:14	-159.45	32722					
275 00:47:18	107.37	36238		275 01:12:06	174.20	32723		275 00:09:32	-120.54	26463	
275 02:32:39	80.91	36239		275 02:56:58	147.86	32724		275 01:54:28	-146.90	26464	
275 04:18:00	54.44	36240		275 04:41:50	121.51	32725		275 03:39:23	-173.25	26465	
275 06:03:21	27.98	36241		275 06:26:43	95.17	32726		275 05:24:19	160.39	26466	
275 07:48:41	1.52	36242		275 08:11:35	68.83	32727		275 07:09:14	134.03	26467	
275 09:34:02	-24.94	36243		275 09:56:27	42.49	32728		275 08:54:10	107.68	26468	
275 11:19:23	-51.41	36244		275 11:41:19	16.14	32729		275 10:39:05	81.32	26469	
275 13:04:44	-77.87	36245		275 13:26:12	-10.20	32730		275 12:24:00	54.96	26470	
275 14:50:05	-104.33	36246		275 15:11:04	-36.54	32731		275 14:08:56	28.61	26471	
275 16:35:25	-130.79	36247		275 16:55:56	-62.89	32732		275 15:53:51	2.25	26472	
275 18:20:46	-157.26	36248		275 18:40:48	-89.23	32733		275 17:38:47	-24.10	26473	
275 20:06:07	176.28	36249		275 20:25:41	-115.57	32734		275 19:23:42	-50.46	26474	
275 21:51:28	149.82	36250		275 22:10:33	-141.92	32735		275 21:08:37	-76.82	26475	
275 23:36:49	123.36	36251		275 23:55:25	-168.26	32736		275 22:53:33	-103.17	26476	
276 01:22:10	96.90	36252		276 01:40:17	165.40	32737		276 00:38:28	-129.33	26477	
276 03:07:30	70.43	36253		276 03:25:10	139.05	32738		276 02:23:24	-155.89	26478	
276 04:52:51	43.97	36254		276 05:10:02	112.71	32739		276 04:08:19	177.76	26479	
276 06:38:12	17.51	36255		276 06:54:54	86.37	32740		276 05:53:14	151.40	26480	
276 08:23:33	-8.95	36256		276 08:39:46	60.02	32741		276 07:38:10	125.04	26481	
276 10:08:54	-35.42	36257		276 10:24:39	33.68	32742		276 09:23:05	98.69	26482	
276 11:54:14	-61.88	36258		276 12:09:31	7.34	32743		276 11:08:01	72.33	26483	
276 13:39:35	-88.34	36259		276 13:54:23	-19.01	32744		276 12:52:56	45.97	26484	
276 15:24:56	-114.81	36260		276 15:39:15	-45.35	32745		276 14:37:51	19.62	26485	
276 17:10:17	-141.27	36261		276 17:24:08	-71.69	32746		276 16:22:47	-6.74	26486	
276 18:55:38	-167.73	36262		276 19:09:00	-98.04	32747		276 18:07:42	-33.10	26487	
276 20:40:58	165.81	36263		276 20:53:52	-124.38	32748		276 19:52:38	-59.45	26488	
276 22:26:19	139.34	36264		276 22:38:44	-150.72	32749		276 21:37:33	-85.81	26489	
								276 23:22:28	-112.17	26490	

West longitude is negative (-)

SATELLITE S2

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) **E LONG** **ORBIT**
 day hr mn sc deg dg

273	00:39:14	-116.87	24726
273	02:21:17	-142.38	24727
273	04:03:20	-167.89	24728
273	05:45:23	166.60	24729
273	07:27:26	141.09	24730
273	09:09:29	115.58	24731
273	10:51:32	90.07	24732
273	12:33:35	64.56	24733
273	14:15:38	39.05	24734
273	15:57:41	13.53	24735
273	17:39:44	-11.98	24736
273	19:21:47	-37.49	24737
273	21:03:50	-63.00	24738
273	22:45:53	-88.51	24739

SATELLITE S3

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) **E LONG** **ORBIT**
 day hr mn sc deg dg

273	00:21:06	-72.50	15759
273	02:02:22	-97.81	15760
273	03:43:38	-123.13	15761
273	05:24:54	-148.43	15762
273	07:06:09	-173.76	15763
273	08:47:25	160.93	15764
273	10:28:41	135.61	15765
273	12:09:57	110.29	15766
273	13:51:13	84.97	15767
273	15:32:29	59.65	15768
273	17:13:45	34.34	15769
273	18:55:01	9.02	15770
273	20:36:16	-16.29	15771
273	22:17:32	-41.61	15772
273	23:58:48	-66.92	15773

SATELLITE S4

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) **E LONG** **ORBIT**
 day hr mn sc deg dg

273	00:42:45	-163.16	5226
273	02:24:52	171.31	5227
273	04:07:00	145.77	5228
273	05:49:07	120.25	5229
273	07:31:14	94.72	5230
273	09:13:22	69.19	5231
273	10:55:29	43.66	5232
273	12:37:37	18.12	5233
273	14:19:44	-7.40	5234
273	16:01:51	-32.93	5235
273	17:43:59	-58.46	5236
273	19:26:06	-83.99	5237
273	21:08:14	-109.53	5238
273	22:50:21	-135.05	5239

274	00:27:56	-114.02	24740
274	02:09:59	-139.53	24741
274	03:52:02	-165.04	24742
274	05:34:05	169.45	24743
274	07:16:08	143.94	24744
274	08:58:11	118.43	24745
274	10:40:14	92.92	24746
274	12:22:16	67.42	24747
274	14:04:19	41.91	24748
274	15:46:22	16.40	24749
274	17:28:25	-9.11	24750
274	19:10:28	-34.62	24751
274	20:52:31	-60.13	24752
274	22:34:34	-85.64	24753

274	01:40:04	-92.24	15774
274	03:21:20	-117.56	15775
274	05:02:36	-142.88	15776
274	06:43:52	-168.20	15777
274	08:25:08	166.49	15778
274	10:06:24	141.17	15779
274	11:47:39	115.86	15780
274	13:28:55	90.35	15781
274	15:10:11	65.23	15782
274	16:51:27	39.91	15783
274	18:32:43	14.59	15784
274	20:13:59	-10.73	15785
274	21:55:15	-36.03	15786
274	23:36:31	-61.36	15787

274	00:32:28	-160.58	5240
274	02:14:36	173.89	5241
274	03:56:43	148.36	5242
274	05:38:51	122.82	5243
274	07:20:58	97.30	5244
274	09:03:05	71.77	5245
274	10:45:13	46.23	5246
274	12:27:20	20.71	5247
274	14:09:28	-4.83	5248
274	15:51:35	-30.35	5249
274	17:33:43	-55.89	5250
274	19:15:50	-81.42	5251
274	20:57:57	-106.94	5252
274	22:40:05	-132.48	5253

275	00:16:37	-111.15	24754
275	01:58:40	-136.66	24755
275	03:40:43	-162.17	24756
275	05:22:46	172.32	24757
275	07:04:49	146.81	24758
275	08:46:52	121.30	24759
275	10:28:55	95.79	24760
275	12:10:58	70.27	24761
275	13:53:01	44.76	24762
275	15:35:04	19.25	24763
275	17:17:07	-6.26	24764
275	18:59:10	-31.77	24765
275	20:41:13	-57.28	24766
275	22:23:16	-82.79	24767

275	01:17:46	-86.67	15788
275	02:59:02	-111.99	15789
275	04:40:18	-137.30	15790
275	06:21:34	-162.62	15791
275	08:02:50	172.06	15792
275	09:44:06	146.74	15793
275	11:25:22	121.42	15794
275	13:06:38	96.11	15795
275	14:47:53	70.80	15796
275	16:29:09	45.48	15797
275	18:10:25	20.16	15798
275	19:51:41	-5.15	15799
275	21:32:57	-30.47	15800
275	23:14:13	-55.79	15801

275	00:22:12	-158.00	5254
275	02:04:20	176.46	5255
275	03:46:27	150.93	5256
275	05:28:34	125.41	5257
275	07:10:42	99.87	5258
275	08:52:49	74.34	5259
275	10:34:57	48.81	5260
275	12:17:04	23.28	5261
275	13:59:11	-2.24	5262
275	15:41:19	-27.78	5263
275	17:23:26	-53.31	5264
275	19:05:34	-78.84	5265
275	20:47:41	-104.37	5266
275	22:29:49	-129.91	5267

276	00:05:19	-108.30	24768
276	01:47:22	-133.81	24769
276	03:29:25	-159.32	24770
276	05:11:28	175.17	24771
276	06:53:31	149.66	24772
276	08:35:34	124.15	24773
276	10:17:37	98.64	24774
276	11:59:40	73.13	24775
276	13:41:43	47.62	24776
276	15:23:45	22.12	24777
276	17:05:48	-3.39	24778
276	18:47:51	-28.90	24779
276	20:29:54	-54.41	24780
276	22:11:57	-79.92	24781
276	23:54:00	-105.43	24782

276	00:55:29	-81.11	15802
276	02:36:45	-106.43	15803
276	04:18:00	-131.73	15804
276	05:59:16	-157.05	15805
276	07:40:32	177.63	15806
276	09:21:48	152.31	15807
276	11:03:04	127.00	15808
276	12:44:20	101.68	15809
276	14:25:36	76.36	15810
276	16:06:52	51.04	15811
276	17:48:07	25.74	15812
276	19:29:23	.42	15813
276	21:10:39	-24.90	15814
276	22:51:55	-50.22	15815

276	00:11:56	-155.43	5268
276	01:54:03	179.04	5269
276	03:36:11	153.50	5270
276	05:18:18	127.98	5271
276	07:00:26	102.44	5272
276	08:42:33	76.92	5273
276	10:24:40	51.39	5274
276	12:06:48	25.85	5275
276	13:48:55	.33	5276
276	15:31:03	-25.21	5277
276	17:13:10	-50.73	5278
276	18:55:17	-76.26	5279
276	20:37:25	-101.80	5280
276	22:19:32	-127.32	5281

SATELLITE C1

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

277 00:11:40	112.88	36265
277 01:37:01	86.42	36266
277 03:42:22	59.96	36267
277 05:27:43	33.50	36268
277 07:13:03	7.03	36269
277 08:58:24	-19.43	36270
277 10:43:45	-45.89	36271
277 12:29:06	-72.35	36272
277 14:14:27	-98.82	36273
277 15:59:47	-125.28	36274
277 17:45:08	-151.74	36275
277 19:30:29	-178.20	36276
277 21:15:50	155.33	36277
277 23:01:11	128.67	36278

SATELLITE C2

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

277 00:23:37	-177.07	32750
277 02:08:29	156.59	32751
277 03:53:21	130.25	32752
277 05:38:13	103.90	32753
277 07:23:06	77.56	32754
277 09:07:58	51.22	32755
277 10:52:50	24.87	32756
277 12:37:42	-1.47	32757
277 14:22:35	-27.81	32758
277 16:07:27	-54.16	32759
277 17:52:19	-80.50	32760
277 19:37:11	-106.84	32761
277 21:22:04	-133.18	32762
277 23:06:56	-159.53	32763

SATELLITE C3

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

277 01:07:24	-138.52	26491
277 02:52:19	-164.88	26492
277 04:37:15	168.77	26493
277 06:22:10	142.41	26494
277 08:07:05	116.05	26495
277 09:52:01	89.70	26496
277 11:36:56	63.34	26497
277 13:21:52	36.99	26498
277 15:06:47	10.63	26499
277 16:51:42	-15.73	26500
277 18:36:38	-42.08	26501
277 20:21:33	-68.44	26502
277 22:06:29	-94.80	26503
277 23:51:24	-121.15	26504

278 00:46:31	102.41	36279
278 02:31:52	75.95	36280
278 04:17:13	49.48	36281
278 06:02:34	23.02	36282
278 07:47:55	-3.44	36283
278 09:33:15	-29.91	36284
278 11:18:36	-56.37	36285
278 13:03:57	-82.83	36286
278 14:49:18	-109.29	36287
278 16:34:39	-135.75	36288
278 18:20:00	-162.21	36289
278 20:05:20	171.32	36290
278 21:50:41	144.86	36291
278 23:36:02	118.40	36292

278 00:31:48	174.13	32764
278 02:36:40	147.78	32765
278 04:21:33	121.44	32766
278 06:06:25	95.10	32767
278 07:51:17	68.75	32768
278 09:36:09	42.41	32769
278 11:21:02	16.07	32770
278 13:05:54	-10.27	32771
278 14:50:46	-36.62	32772
278 16:35:38	-62.96	32773
278 18:20:31	-89.30	32774
278 20:05:23	-115.65	32775
278 21:50:15	-141.99	32776
278 23:35:07	-168.34	32777

278 01:36:20	-147.51	26505
278 03:21:15	-173.87	26506
278 05:06:10	159.78	26507
278 06:51:06	133.42	26508
278 08:36:01	107.06	26509
278 10:20:57	80.71	26510
278 12:05:52	54.35	26511
278 13:50:47	27.99	26512
278 15:35:43	1.64	26513
278 17:20:38	-24.72	26514
278 19:05:34	-51.07	26515
278 20:50:29	-77.43	26516
278 22:35:24	-103.79	26517

279 01:21:23	91.93	36293
279 03:06:44	65.47	36294
279 04:52:04	39.01	36295
279 06:37:25	12.55	36296
279 08:22:46	-13.92	36297
279 10:08:07	-40.38	36298
279 11:53:28	-66.84	36299
279 13:38:48	-93.30	36300
279 15:24:09	-119.77	36301
279 17:09:30	-146.23	36302
279 18:54:51	-172.69	36303
279 20:40:12	160.85	36304
279 22:25:32	134.38	36305

279 01:19:59	165.32	32778
279 03:04:52	138.98	32779
279 04:49:44	112.64	32780
279 06:34:36	86.29	32781
279 08:19:28	59.95	32782
279 10:04:21	33.61	32783
279 11:49:13	7.26	32784
279 13:34:05	-19.08	32785
279 15:18:57	-45.43	32786
279 17:03:50	-71.77	32787
279 18:48:42	-98.11	32788
279 20:33:34	-124.45	32789
279 22:18:26	-150.80	32790

279 00:20:20	-130.14	26518
279 02:05:15	-156.50	26519
279 03:50:11	177.15	26520
279 05:35:06	150.79	26521
279 07:20:01	124.43	26522
279 09:04:57	96.08	26523
279 10:49:52	71.72	26524
279 12:34:48	45.36	26525
279 14:19:43	19.01	26526
279 16:04:38	-7.35	26527
279 17:49:34	-33.71	26528
279 19:34:29	-60.06	26529
279 21:19:25	-86.42	26530
279 23:04:20	-112.78	26531

280 00:10:53	107.92	36306
280 01:56:14	81.46	36307
280 03:41:35	55.00	36308
280 05:26:56	28.54	36309
280 07:12:17	2.07	36310
280 08:57:37	-24.39	36311
280 10:42:58	-50.85	36312
280 12:28:19	-77.31	36313
280 14:13:40	-103.78	36314
280 15:59:01	-130.24	36315
280 17:44:21	-156.70	36316
280 19:29:42	176.84	36317
280 21:15:03	150.37	36318
280 23:00:24	123.91	36319

280 00:03:19	-177.14	32791
280 01:48:11	156.52	32792
280 03:33:03	130.17	32793
280 05:17:55	103.83	32794
280 07:02:48	77.49	32795
280 08:47:40	51.14	32796
280 10:32:32	24.80	32797
280 12:17:24	-1.54	32798
280 14:02:17	-27.89	32799
280 15:47:09	-54.23	32800
280 17:32:01	-80.57	32801
280 19:16:53	-106.92	32802
280 21:01:46	-133.26	32803
280 22:46:38	-159.60	32804

280 00:49:16	-139.13	26532
280 02:34:11	-165.49	26533
280 04:19:06	168.15	26534
280 06:04:02	141.80	26535
280 07:48:57	115.44	26536
280 09:33:53	89.09	26537
280 11:18:48	62.73	26538
280 13:03:43	36.37	26539
280 14:48:39	10.02	26540
280 16:33:34	-16.34	26541
280 18:18:30	-42.70	26542
280 20:03:25	-69.05	26543
280 21:48:20	-95.41	26544
280 23:33:16	-121.77	26545

SATELLITE S2				SATELLITE S3				SATELLITE S4			
Ascending Node Predictions				Ascending Node Predictions				Ascending Node Predictions			
Predicting for 183 days				Predicting for 183 days				Predicting for 183 days			
TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	day	hr mn sc	deg dg
day	hr	mn	sc	deg	dg	day	hr	mn	sc	deg	dg
277 01:36:03	-130.94	24783	277 00:33:11	-75.53	15816	277 00:01:40	-152.86	5282			
277 03:18:06	-156.45	24784	277 02:14:27	-100.85	15817	277 01:43:47	-178.38	5283			
277 05:00:09	178.04	24785	277 03:55:43	-126.17	15818	277 03:25:55	156.08	5284			
277 06:42:12	152.52	24786	277 05:36:59	-151.49	15819	277 05:08:02	130.55	5285			
277 08:24:15	127.01	24787	277 07:18:15	-176.81	15820	277 06:50:09	105.03	5286			
277 10:06:18	101.50	24788	277 08:59:30	157.89	15821	277 08:32:17	79.49	5287			
277 11:48:21	75.99	24789	277 10:40:46	132.57	15822	277 10:14:24	53.96	5288			
277 13:30:24	50.48	24790	277 12:22:02	107.25	15823	277 11:56:32	28.43	5289			
277 15:12:27	24.97	24791	277 14:03:18	81.93	15824	277 13:38:39	2.90	5290			
277 16:54:30	-54	24792	277 15:44:34	56.62	15825	277 15:20:46	-22.62	5291			
277 18:36:33	-26.05	24793	277 17:25:50	31.30	15826	277 17:02:54	-48.16	5292			
277 20:18:36	-51.56	24794	277 19:07:06	5.98	15827	277 18:45:01	-73.69	5293			
277 22:00:39	-77.07	24795	277 20:48:22	-19.34	15828	277 20:27:09	-99.22	5294			
277 23:42:42	-102.58	24796	277 22:29:37	-44.64	15829	277 22:09:16	-124.75	5295			
277 23:51:23	-		277 23:51:23	-150.27		277 23:51:23	-				
278 01:24:45	-128.09	24797	278 00:10:53	-69.96	15830	278 01:33:31	-175.81	5297			
278 03:06:48	-153.60	24798	278 01:52:09	-95.28	15831	278 03:15:38	158.66	5298			
278 04:48:51	-179.11	24799	278 03:33:25	-120.60	15832	278 04:37:46	133.12	5299			
278 06:30:54	155.38	24800	278 05:14:41	-145.92	15833	278 06:39:53	107.60	5300			
278 08:12:57	129.87	24801	278 06:55:57	-171.23	15834	278 08:22:01	82.06	5301			
278 09:55:00	104.36	24802	278 08:37:13	163.45	15835	278 10:04:08	56.94	5302			
278 11:37:03	78.85	24803	278 10:18:29	138.13	15836	278 11:46:15	31.01	5303			
278 13:19:06	53.34	24804	278 11:59:44	112.83	15837	278 13:28:23	5.47	5304			
278 15:01:09	27.82	24805	278 13:41:00	87.51	15838	278 15:10:30	-20.05	5305			
278 16:43:12	2.31	24806	278 15:22:16	62.19	15839	278 16:52:38	-45.59	5306			
278 18:25:14	-23.18	24807	278 17:03:32	36.87	15840	278 18:34:45	-71.11	5307			
278 20:07:17	-48.69	24808	278 18:46:48	11.55	15841	278 20:16:52	-96.64	5308			
278 21:49:20	-74.20	24809	278 20:26:04	-13.76	15842	278 21:59:00	-122.18	5309			
278 23:31:23	-99.71	24810	278 22:07:20	-39.08	15843	278 23:41:07	-147.70	5310			
278 23:48:36	-		278 23:48:36	-64.40		278 23:48:36	-				
279 01:13:26	-125.23	24811	279 01:29:32	-89.72	15845	279 01:23:15	-173.24	5311			
279 02:55:29	-150.74	24812	279 03:11:07	-115.02	15846	279 03:05:22	161.24	5312			
279 04:37:32	-176.25	24813	279 04:52:23	-140.34	15847	279 04:47:29	135.71	5313			
279 06:19:35	158.24	24814	279 06:33:39	-165.66	15848	279 06:29:37	110.17	5314			
279 08:01:38	132.73	24815	279 08:14:55	169.02	15849	279 08:11:44	84.65	5315			
279 09:43:41	107.22	24816	279 09:56:11	143.70	15850	279 09:53:52	59.11	5316			
279 11:25:44	81.71	24817	279 11:37:27	118.39	15851	279 11:35:59	33.58	5317			
279 13:07:47	56.20	24818	279 13:18:43	93.07	15852	279 13:18:07	8.05	5318			
279 14:49:50	30.69	24819	279 14:59:59	67.75	15853	279 15:00:14	-17.48	5319			
279 16:31:53	5.18	24820	279 16:41:14	42.44	15854	279 16:42:21	-43.00	5320			
279 18:13:56	-20.33	24821	279 18:22:30	17.13	15855	279 18:24:29	-68.54	5321			
279 19:55:59	-45.84	24822	279 20:03:46	-8.19	15856	279 20:06:36	-94.07	5322			
279 21:38:02	-71.35	24823	279 21:45:02	-33.51	15857	279 21:48:44	-119.60	5323			
279 23:20:05	-96.86	24824	279 23:26:18	-58.83	15858	279 23:30:51	-145.13	5324			
280 01:02:08	-122.37	24825	280 01:07:34	-84.15	15859	280 01:12:58	-170.65	5325			
280 02:44:11	-147.88	24826	280 02:48:50	-109.46	15860	280 02:55:06	163.81	5326			
280 04:26:14	-173.39	24827	280 04:30:06	-134.78	15861	280 04:37:13	138.28	5327			
280 06:08:17	161.10	24828	280 06:11:21	-160.09	15862	280 06:19:21	112.75	5328			
280 07:50:20	135.59	24829	280 07:52:37	174.60	15863	280 08:01:28	87.22	5329			
280 09:32:23	110.07	24830	280 09:33:53	149.28	15864	280 09:43:35	61.70	5330			
280 11:14:26	84.56	24831	280 11:15:09	123.96	15865	280 11:25:43	36.16	5331			
280 12:56:29	59.03	24832	280 12:56:25	98.64	15866	280 13:07:50	10.63	5332			
280 14:38:32	33.54	24833	280 14:37:41	73.32	15867	280 14:49:58	-14.91	5333			
280 16:20:35	8.03	24834	280 16:18:57	48.01	15868	280 16:32:05	-40.43	5334			
280 18:02:38	-17.48	24835	280 18:00:13	22.69	15869	280 18:14:13	-65.97	5335			
280 19:44:41	-42.99	24836	280 19:41:29	-2.63	15870	280 19:56:20	-91.49	5336			
280 21:26:43	-68.49	24837	280 21:22:44	-27.94	15871	280 21:38:27	-117.02	5337			
280 23:08:46	-94.00	24838	280 23:04:00	-53.25	15872	280 23:20:35	-142.56	5338			

West longitude is negative (-)

SATELLITE C1				SATELLITE C2				SATELLITE C3			
Ascending Node Predictions				Ascending Node Predictions				Ascending Node Predictions			
Predicting for 183 days				Predicting for 183 days				Predicting for 183 days			
TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	day	hr mn sc	deg dg
day	hr	mn	sc	deg	dg	day	hr	mn	sc	deg	dg
281 00:45:45	97.45	36320	281 00:31:30	174.05	32805	281 01:18:11	-148.12	26546			
281 02:31:05	70.98	36321	281 02:16:22	147.71	32806	281 03:03:07	-174.48	26547			
281 04:16:26	44.52	36322	281 04:01:15	121.37	32807	281 04:48:02	159.16	26548			
281 06:01:47	18.06	36323	281 05:46:07	95.03	32808	281 06:32:57	132.81	26549			
281 07:47:08	-8.40	36324	281 07:30:59	68.68	32809	281 08:17:53	106.45	26550			
281 09:32:29	-34.86	36325	281 09:15:51	42.34	32810	281 10:02:48	80.09	26551			
281 11:17:49	-61.33	36326	281 11:00:44	16.00	32811	281 11:47:44	53.74	26552			
281 13:03:10	-87.79	36327	281 12:45:36	-10.35	32812	281 13:32:39	27.38	26553			
281 14:48:31	-114.25	36328	281 14:30:28	-36.69	32813	281 15:17:35	-1.03	26554			
281 16:33:52	-140.71	36329	281 16:15:20	-63.04	32814	281 17:02:30	-25.33	26555			
281 18:19:13	-167.17	36330	281 18:00:13	-89.38	32815	281 18:47:25	-51.69	26556			
281 20:04:34	166.36	36331	281 19:45:05	-115.72	32816	281 20:32:21	-78.04	26557			
281 21:49:54	139.90	36332	281 21:29:57	-142.06	32817	281 22:17:16	-104.40	26558			
281 23:35:15	113.44	36333	281 23:14:49	-168.41	32818						
282 01:20:36	86.97	36334	282 00:59:41	165.25	32819	282 00:02:12	-130.75	26559			
282 03:05:57	60.51	36335	282 02:44:34	138.91	32820	282 01:47:07	-157.11	26560			
282 04:51:18	34.05	36336	282 04:29:26	112.56	32821	282 03:32:02	176.53	26561			
282 06:36:38	7.59	36337	282 06:14:18	86.22	32822	282 05:16:58	150.18	26562			
282 08:21:59	-18.88	36338	282 07:59:10	59.87	32823	282 07:01:53	123.82	26563			
282 10:07:20	-45.34	36339	282 09:44:03	33.53	32824	282 08:46:49	97.46	26564			
282 11:52:41	-71.80	36340	282 11:28:55	7.19	32825	282 10:31:44	71.11	26565			
282 13:38:02	-98.26	36341	282 13:13:47	-19.15	32826	282 12:16:39	44.75	26566			
282 15:23:22	-124.73	36342	282 14:58:39	-45.50	32827	282 14:01:35	18.39	26567			
282 17:08:43	-151.19	36343	282 16:43:32	-71.84	32828	282 15:46:30	-7.96	26568			
282 18:54:04	-177.65	36344	282 18:28:24	-98.18	32829	282 17:31:26	-34.32	26569			
282 20:39:25	155.89	36345	282 20:13:16	-124.53	32830	282 19:16:21	-60.68	26570			
282 22:24:46	129.43	36346	282 21:58:08	-150.87	32831	282 21:01:16	-87.03	26571			
282 23:43:01	-177.21	32832	282 23:43:01	-177.21	32832	282 22:46:12	-113.39	26572			
283 00:10:06	102.96	36347	283 01:27:53	156.44	32833	283 00:31:07	-139.75	26573			
283 01:55:27	76.50	36348	283 03:12:45	130.10	32834	283 02:16:03	-166.10	26574			
283 03:40:48	50.04	36349	283 04:57:37	103.76	32835	283 04:00:58	167.54	26575			
283 05:26:09	23.58	36350	283 06:42:30	77.41	32836	283 05:45:54	141.19	26576			
283 07:11:30	-2.89	36351	283 08:27:22	51.07	32837	283 07:30:49	114.83	26577			
283 08:56:50	-29.35	36352	283 10:12:14	24.73	32838	283 09:15:44	88.47	26578			
283 10:42:11	-55.81	36353	283 11:57:06	-1.62	32839	283 11:00:40	62.12	26579			
283 12:27:32	-82.27	36354	283 13:41:59	-27.96	32840	283 12:45:35	35.76	26580			
283 14:12:53	-108.74	36355	283 15:26:51	-54.30	32841	283 14:30:31	9.40	26581			
283 15:58:14	-135.20	36356	283 17:11:43	-80.65	32842	283 16:15:26	-16.95	26582			
283 17:43:34	-161.66	36357	283 18:56:35	-106.99	32843	283 18:00:21	-43.31	26583			
283 19:28:55	171.88	36358	283 20:41:27	-133.33	32844	283 19:45:17	-69.67	26584			
283 21:14:16	145.41	36359	283 22:26:20	-159.67	32845	283 21:30:12	-96.02	26585			
283 22:59:37	118.95	36360	284 00:11:12	173.98	32846	283 23:15:08	-122.38	26586			
284 00:44:58	92.49	36361	284 01:56:04	147.64	32847	284 01:00:03	-148.74	26587			
284 02:30:19	66.03	36362	284 03:40:56	121.29	32848	284 02:44:58	-175.09	26588			
284 04:15:39	39.56	36363	284 05:25:49	94.95	32849	284 04:29:54	158.55	26589			
284 06:01:00	13.10	36364	284 07:10:41	68.61	32850	284 06:14:49	132.19	26590			
284 07:46:21	-13.36	36365	284 08:55:33	42.26	32851	284 07:59:45	105.84	26591			
284 09:31:42	-39.82	36366	284 10:40:25	15.92	32852	284 09:44:40	79.48	26592			
284 11:17:03	-66.28	36367	284 12:25:18	-10.42	32853	284 11:29:36	53.13	26593			
284 13:02:23	-92.75	36368	284 14:10:10	-36.76	32854	284 13:14:31	26.77	26594			
284 14:47:44	-119.21	36369	284 15:55:02	-63.11	32855	284 14:59:26	-41	26595			
284 16:33:05	-145.67	36370	284 17:39:54	-89.45	32856	284 16:44:22	-25.94	26596			
284 18:18:26	-172.13	36371	284 19:24:47	-115.79	32857	284 18:29:17	-52.30	26597			
284 20:03:47	161.40	36372	284 21:09:39	-142.14	32858	284 20:14:13	-78.65	26598			
284 21:49:07	134.94	36373	284 22:54:31	-168.48	32859	284 21:59:08	-105.01	26599			
284 23:34:28	108.48	36374				284 23:44:03	-131.37	26600			

West longitude is negative (-)

SATELLITE S2

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

281	00:50:49	-119.51	24839
281	02:32:52	-145.02	24840
281	04:14:55	-170.53	24841
281	05:56:58	163.96	24842
281	07:39:01	138.45	24843
281	09:21:04	112.94	24844
281	11:03:07	87.43	24845
281	12:45:10	61.92	24846
281	14:27:13	36.41	24847
281	16:09:16	10.90	24848
281	17:51:19	-14.61	24849
281	19:33:22	-40.12	24850
281	21:15:25	-65.63	24851
281	22:57:28	-91.14	24852

SATELLITE S3

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

281	00:45:16	-78.57	15873
281	02:26:32	-103.89	15874
281	04:07:48	-129.21	15875
281	05:49:04	-154.53	15876
281	07:30:20	-179.84	15877
281	09:11:36	-154.84	15878
281	10:52:51	-129.53	15879
281	12:34:07	-104.21	15880
281	14:15:23	-78.90	15881
281	15:56:39	-53.58	15882
281	17:37:55	-28.26	15883
281	19:19:11	-2.94	15884
281	21:00:27	-22.38	15885
281	22:41:43	-47.69	15886

SATELLITE S4

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

281	01:02:42	-168.06	5339
281	02:44:50	166.38	5340
281	04:26:57	140.86	5341
281	06:09:04	115.33	5342
281	07:51:12	89.79	5343
281	09:33:19	64.27	5344
281	11:15:27	38.73	5345
281	12:57:34	13.21	5346
281	14:39:41	-12.32	5347
281	16:21:49	-37.86	5348
281	18:03:56	-63.38	5349
281	19:46:04	-88.92	5350
281	21:28:11	-114.45	5351
281	23:10:19	-139.98	5352

282	00:39:31	-116.65	24853
282	02:21:34	-142.16	24854
282	04:03:37	-167.68	24855
282	05:45:40	166.81	24856
282	07:27:43	141.30	24857
282	09:09:46	115.79	24858
282	10:51:49	99.28	24859
282	12:33:52	64.77	24860
282	14:15:55	39.26	24861
282	15:57:58	13.75	24862
282	17:40:01	-11.76	24863
282	19:22:04	-37.27	24864
282	21:04:07	-62.78	24865
282	22:46:10	-88.29	24866

282	00:22:38	-73.00	15887
282	02:04:14	-98.32	15888
282	03:45:30	-123.63	15889
282	05:26:46	-148.95	15890
282	07:08:02	-174.27	15891
282	08:49:18	-160.41	15892
282	10:30:34	-135.09	15893
282	12:11:50	-109.78	15894
282	13:53:06	-84.46	15895
282	15:34:21	-59.15	15896
282	17:15:37	-33.83	15897
282	18:56:53	-8.52	15898
282	20:38:09	-16.80	15899
282	22:19:25	-42.12	15900

282	00:52:26	-165.51	5333
282	02:34:33	168.97	5334
282	04:16:41	143.43	5335
282	05:58:48	117.90	5336
282	07:40:56	92.37	5337
282	09:23:03	66.84	5338
282	11:05:10	41.32	5339
282	12:47:18	15.78	5360
282	14:29:25	-9.75	5361
282	16:11:33	-35.29	5362
282	17:53:40	-60.81	5363
282	19:35:48	-86.35	5364
282	21:17:55	-111.87	5365
282	23:00:02	-137.40	5366

283	00:28:12	-113.79	24867
283	02:10:15	-139.30	24868
283	03:52:18	-164.81	24869
283	05:34:21	169.68	24870
283	07:16:24	144.17	24871
283	08:58:27	118.66	24872
283	10:40:30	93.15	24873
283	12:22:33	67.64	24874
283	14:04:36	42.13	24875
283	15:46:39	16.62	24876
283	17:28:42	-8.89	24877
283	19:10:45	-34.40	24878
283	20:52:48	-59.91	24879
283	22:34:51	-85.43	24880

283	00:00:41	-67.44	15901
283	01:41:57	-92.76	15902
283	03:23:13	-118.07	15903
283	05:04:28	-143.38	15904
283	06:45:44	-168.70	15905
283	08:27:00	-165.99	15906
283	10:08:16	-140.67	15907
283	11:49:32	-115.35	15908
283	13:30:48	-90.03	15909
283	15:12:04	-64.71	15910
283	16:53:20	-39.40	15911
283	18:34:36	-14.08	15912
283	20:15:51	-11.23	15913
283	21:57:07	-36.55	15914
283	23:38:23	-61.86	15915

283	00:42:10	-162.94	5367
283	02:24:17	171.54	5368
283	04:06:25	146.00	5369
283	05:48:32	120.48	5370
283	07:30:39	94.95	5371
283	09:12:47	69.41	5372
283	10:54:54	43.89	5373
283	12:37:02	18.35	5374
283	14:19:09	-7.17	5375
283	16:01:16	-32.70	5376
283	17:43:24	-58.24	5377
283	19:25:31	-83.76	5378
283	21:07:39	-109.30	5379
283	22:49:46	-134.83	5380

284	00:16:54	-110.94	24891
284	01:58:57	-136.45	24892
284	03:41:00	-161.96	24893
284	05:23:03	172.53	24894
284	07:05:06	147.02	24895
284	08:47:09	121.51	24896
284	10:29:12	96.00	24897
284	12:11:15	70.49	24898
284	13:53:18	44.98	24899
284	15:35:21	19.47	24900
284	17:17:24	-6.04	24901
284	18:59:27	-31.35	24902
284	20:41:30	-57.06	24903
284	22:23:33	-82.57	24904

284	01:19:39	-87.18	15916
284	03:00:55	-112.50	15917
284	04:42:11	-137.82	15918
284	06:23:27	-163.14	15919
284	08:04:43	-171.55	15920
284	09:45:58	-146.24	15921
284	11:27:14	-120.92	15922
284	13:08:30	-95.60	15923
284	14:49:46	-70.29	15924
284	16:31:02	-44.97	15925
284	18:12:18	-19.65	15926
284	19:53:34	-5.67	15927
284	21:34:50	-30.99	15928
284	23:16:06	-56.30	15929

284	00:31:54	-160.36	5381
284	02:14:01	174.11	5382
284	03:56:08	148.59	5383
284	05:38:16	123.05	5384
284	07:20:23	97.52	5385
284	09:02:31	71.99	5386
284	10:44:38	46.46	5387
284	12:26:45	20.94	5388
284	14:08:53	-4.60	5389
284	15:51:00	-30.13	5390
284	17:33:08	-55.66	5391
284	19:15:15	-81.19	5392
284	20:57:23	-106.73	5393
284	22:39:30	-132.25	5394

SATELLITE C1**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

285 01:19:49	82.01	36375
285 03:05:10	55.55	36376
285 04:50:31	29.09	36377
285 06:35:51	2.63	36378
285 08:21:12	-23.84	36379
285 10:06:33	-50.30	36380
285 11:51:54	-76.76	36381
285 13:37:15	-103.22	36382
285 15:22:35	-129.69	36383
285 17:07:56	-156.15	36384
285 18:53:17	177.39	36385
285 20:38:38	150.93	36386
285 22:23:59	124.47	36387

SATELLITE C2**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

285 00:39:23	165.18	32860
285 02:24:16	138.83	32861
285 04:09:08	112.49	32862
285 05:54:00	86.15	32863
285 07:39:52	59.80	32864
285 09:23:45	33.46	32865
285 11:08:37	7.12	32866
285 12:53:29	-19.23	32867
285 14:38:21	-45.57	32868
285 16:23:13	-71.91	32869
285 18:08:06	-98.26	32870
285 19:52:58	-124.66	32871
285 21:37:50	-150.94	32872
285 23:22:42	-177.29	32873

SATELLITE C3**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

285 01:28:59	-157.72	26601
285 03:13:54	175.92	26602
285 04:58:50	149.56	26603
285 06:43:45	123.21	26604
285 08:28:40	96.85	26605
285 10:13:36	70.49	26606
285 11:58:31	44.14	26607
285 13:43:27	17.78	26608
285 15:28:22	-8.58	26609
285 17:13:18	-34.93	26610
285 18:58:13	-61.29	26611
285 20:43:08	-87.65	26612
285 22:28:04	-114.00	26613

286 00:09:19	98.00	36388
286 01:54:40	71.54	36389
286 03:40:01	45.08	36390
286 05:25:22	18.62	36391
286 07:10:43	-7.85	36392
286 08:56:03	-34.31	36393
286 10:41:24	-60.77	36394
286 12:26:45	-87.23	36395
286 14:12:06	-113.70	36396
286 15:57:27	-140.16	36397
286 17:42:48	-166.62	36398
286 19:28:08	-166.92	36399
286 21:13:29	140.45	36400
286 22:58:50	113.99	36401

286 01:07:35	156.37	32874
286 02:52:27	130.03	32875
286 04:37:19	103.68	32876
286 06:22:11	77.34	32877
286 08:07:04	51.00	32878
286 09:51:56	24.66	32879
286 11:36:48	-1.69	32880
286 13:21:40	-28.03	32881
286 15:06:33	-54.37	32882
286 16:51:25	-80.72	32883
286 18:36:17	-107.06	32884
286 20:21:09	-133.41	32885
286 22:06:01	-159.75	32886
286 23:50:54	173.91	32887

286 00:12:39	-140.36	26614
286 01:57:55	-166.71	26615
286 03:42:50	166.93	26616
286 05:27:45	140.57	26617
286 07:12:41	114.22	26618
286 08:57:36	87.86	26619
286 10:42:32	61.50	26620
286 12:27:27	35.15	26621
286 14:12:22	8.79	26622
286 15:57:18	-17.57	26623
286 17:42:13	-43.92	26624
286 19:27:09	-70.28	26625
286 21:12:04	-96.64	26626
286 22:57:00	-122.99	26627

287 00:44:11	87.53	36402
287 02:29:32	61.07	36403
287 04:14:52	34.60	36404
287 06:00:13	8.14	36405
287 07:45:34	-18.32	36406
287 09:30:55	-44.78	36407
287 11:16:16	-71.24	36408
287 13:01:36	-97.71	36409
287 14:46:57	-124.17	36410
287 16:32:18	-150.63	36411
287 18:17:39	-177.09	36412
287 20:03:00	156.44	36413
287 21:48:20	129.98	36414
287 23:33:41	103.52	36415

287 01:35:46	147.57	32888
287 03:20:38	121.22	32889
287 05:05:30	94.88	32890
287 06:50:23	68.54	32891
287 08:35:15	42.19	32892
287 10:20:07	15.85	32893
287 12:04:59	-10.49	32894
287 13:49:52	-36.84	32895
287 15:34:44	-63.18	32896
287 17:19:36	-89.52	32897
287 19:04:28	-115.87	32898
287 20:49:21	-142.21	32899
287 22:34:13	-168.55	32900

287 00:41:55	-149.35	26628
287 02:26:50	-175.71	26629
287 04:11:46	157.94	26630
287 05:56:41	131.58	26631
287 07:41:37	105.23	26632
287 09:26:32	78.87	26633
287 11:11:27	52.31	26634
287 12:56:23	26.16	26635
287 14:41:18	-20	26636
287 16:26:14	-26.56	26637
287 18:11:09	-52.91	26638
287 19:56:05	-79.27	26639
287 21:41:00	-105.63	26640
287 23:25:55	-131.98	26641

SATELLITE S2

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

285 00:05:36	-108.08	24895
285 01:47:39	-133.59	24896
285 03:29:41	-159.09	24897
285 05:11:44	175.40	24898
285 06:53:47	149.89	24899
285 08:35:50	124.38	24900
285 10:17:53	98.87	24901
285 11:59:56	73.36	24902
285 13:41:59	47.85	24903
285 15:24:02	22.34	24904
285 17:06:05	-3.18	24905
285 18:48:08	-28.69	24906
285 20:30:11	-54.20	24907
285 22:12:14	-79.71	24908
285 23:54:17	-105.22	24909

SATELLITE S3

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

285 00:57:21	-81.61	15930
285 02:38:37	-106.93	15931
285 04:19:53	-132.24	15932
285 06:01:09	-157.56	15933
285 07:42:25	177.12	15934
285 09:23:41	151.80	15935
285 11:04:57	126.48	15936
285 12:46:13	101.17	15937
285 14:27:28	75.86	15938
285 16:08:44	50.34	15939
285 17:50:00	25.22	15940
285 19:31:16	-0.09	15941
285 21:12:32	-25.41	15942
285 22:53:48	-50.73	15943

SATELLITE S4

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

285 00:21:37	-157.78	5395
285 02:03:45	176.68	5396
285 03:45:52	151.16	5397
285 05:28:00	125.62	5398
285 07:10:07	100.10	5399
285 08:52:14	74.57	5400
285 10:34:22	49.03	5401
285 12:16:29	23.51	5402
285 13:58:37	-2.03	5403
285 15:40:44	-27.55	5404
285 17:22:51	-53.08	5405
285 19:04:59	-78.62	5406
285 20:47:06	-104.14	5407
285 22:29:14	-129.68	5408

286 01:36:20	-130.73	24910
286 03:18:23	-156.24	24911
286 05:00:26	178.25	24912
286 06:42:29	152.74	24913
286 08:24:32	127.23	24914
286 10:06:35	101.72	24915
286 11:48:38	76.21	24916
286 13:30:41	50.70	24917
286 15:12:44	25.19	24918
286 16:54:47	-32	24919
286 18:36:50	-25.83	24920
286 20:18:53	-51.34	24921
286 22:00:56	-76.85	24922
286 23:42:59	-102.36	24923

286 00:35:04	-76.05	15944
286 02:16:20	-101.37	15945
286 03:57:36	-126.68	15946
286 05:38:51	-151.99	15947
286 07:20:07	-177.31	15948
286 09:01:23	157.38	15949
286 10:42:39	132.06	15950
286 12:23:55	106.74	15951
286 14:05:11	81.42	15952
286 15:46:27	56.10	15953
286 17:27:43	30.79	15954
286 19:08:58	5.48	15955
286 20:50:14	-19.84	15956
286 22:31:30	-45.16	15957

286 00:11:21	-133.20	5409
286 01:53:29	179.26	5410
286 03:35:36	153.73	5411
286 05:17:43	128.21	5412
286 06:59:51	102.67	5413
286 08:41:58	77.15	5414
286 10:24:06	51.61	5415
286 12:06:13	26.08	5416
286 13:48:20	-5.56	5417
286 15:30:28	-24.98	5418
286 17:12:35	-50.51	5419
286 18:54:43	-76.04	5420
286 20:36:50	-101.57	5421
286 22:18:58	-127.11	5422

287 01:25:02	-127.88	24924
287 03:07:05	-153.39	24925
287 04:49:08	-178.90	24926
287 06:31:10	155.61	24927
287 08:13:13	130.10	24928
287 09:55:16	104.59	24929
287 11:37:19	79.08	24930
287 13:19:22	53.56	24931
287 15:01:25	28.05	24932
287 16:43:28	2.54	24933
287 18:25:31	-22.97	24934
287 20:07:34	-48.48	24935
287 21:49:37	-73.99	24936
287 23:31:40	-99.50	24937

287 00:12:46	-70.47	15958
287 01:54:02	-95.79	15959
287 03:35:18	-121.11	15960
287 05:16:34	-146.43	15961
287 06:57:50	-171.75	15962
287 08:39:06	162.94	15963
287 10:20:21	137.63	15964
287 12:01:37	112.31	15965
287 13:42:53	87.00	15966
287 15:24:09	61.68	15967
287 17:05:25	36.36	15968
287 18:46:41	11.04	15969
287 20:27:57	-14.28	15970
287 22:09:13	-39.59	15971
287 23:50:29	-64.91	15972

287 00:01:05	-152.63	5423
287 01:43:12	-178.16	5424
287 03:25:20	156.31	5425
287 05:07:27	130.78	5426
287 06:49:35	105.24	5427
287 08:31:42	79.72	5428
287 10:13:49	54.19	5429
287 11:55:57	28.66	5430
287 13:38:04	3.13	5431
287 15:20:12	-22.41	5432
287 17:02:19	-47.93	5433
287 18:44:27	-73.47	5434
287 20:26:34	-99.00	5435
287 22:08:41	-124.52	5436
287 23:50:49	-150.06	5437



National Aeronautics and
Space Administration

Report Documentation Page

1. Report No. NASA TM-85015	2. Government Accession No.	3. Recipient's Catalog No.	
4. Title and Subtitle COSPAS-SARSAT Satellite Orbit Predictor Volume XIII		5. Report Date April 1989	
		6. Performing Organization Code 480	
7. Author(s) Morton L. Friedman		8. Performing Organization Report No. 89B00120	
9. Performing Organization Name and Address Goddard Space Flight Center Greenbelt, Maryland 20771		10. Work Unit No.	
		11. Contract or Grant No. N/A	
12. Sponsoring Agency Name and Address Goddard Space Flight Center National Aeronautics and Space Administration Washington, D.C. 20546-0001		13. Type of Report and Period Covered Technical Memorandum	
15. Supplementary Notes Issued periodically		14. Sponsoring Agency Code	
16. Abstract This report is an analog aid to determine satellite coverage of Emergency Locator Transmitter (ELT)/Emergency Position Indicating Radio Beacon (EPIRB) distress incidents. The predicted orbits listed cover the period from April 16, 1989 through October 15, 1989. The predictor allows the user to determine if a selected position will probably be detected, and is composed of a base map and a satellite track overlay for each satellite.			
17. Key Words (Suggested by Author(s)) COSPAS, SARSAT, Search and Rescue, Orbital Position Estimation		18. Distribution Statement Unclassified - Unlimited Subject Category 15	
19. Security Classif. (of this report) Unclassified	20. Security Classif. (of this page) Unclassified	21. No. of pages	22. Price